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THE STATE OF HAWAII
DATA BOOK

1983

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
DECEMBER 1983

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CONTENTS

Page

Foreword: Governor George R. Ariyoshi 5
State Map 6
Introduction: Kent M. Keith 7
Guide to Tabular Presentation 8
U.S. and Metric Weights and Measures 9

SECTIONS

1. Population 11
2. Vital statistics and health 65
3. Education 103
4. Law enforcement, courts, and corrections 121
5. Geography and environment 144
6. Land use and ownership 184
7. Recreation and tourism 198
8. Government finances and employment 244
9. Social insurance and human services 272
10. National defense 289
11. Labor force, employment, and earnings 301
12. Income, expenditures, and wealth 337
13. Prices 360
14. Elections 378
15. Banking, insurance, and business enterprise 400
16. Communications 425
17. Energy and science 439
18. Transportation 464
19. Agriculture 509
20. Forests, fisheries, and mining 528
21. Construction and housing 542
22. Manufactures 582
23. Domestic trade and services 593
24. Foreign and interstate commerce 624

Bibliography 636
Index 639

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FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1983 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1983 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.

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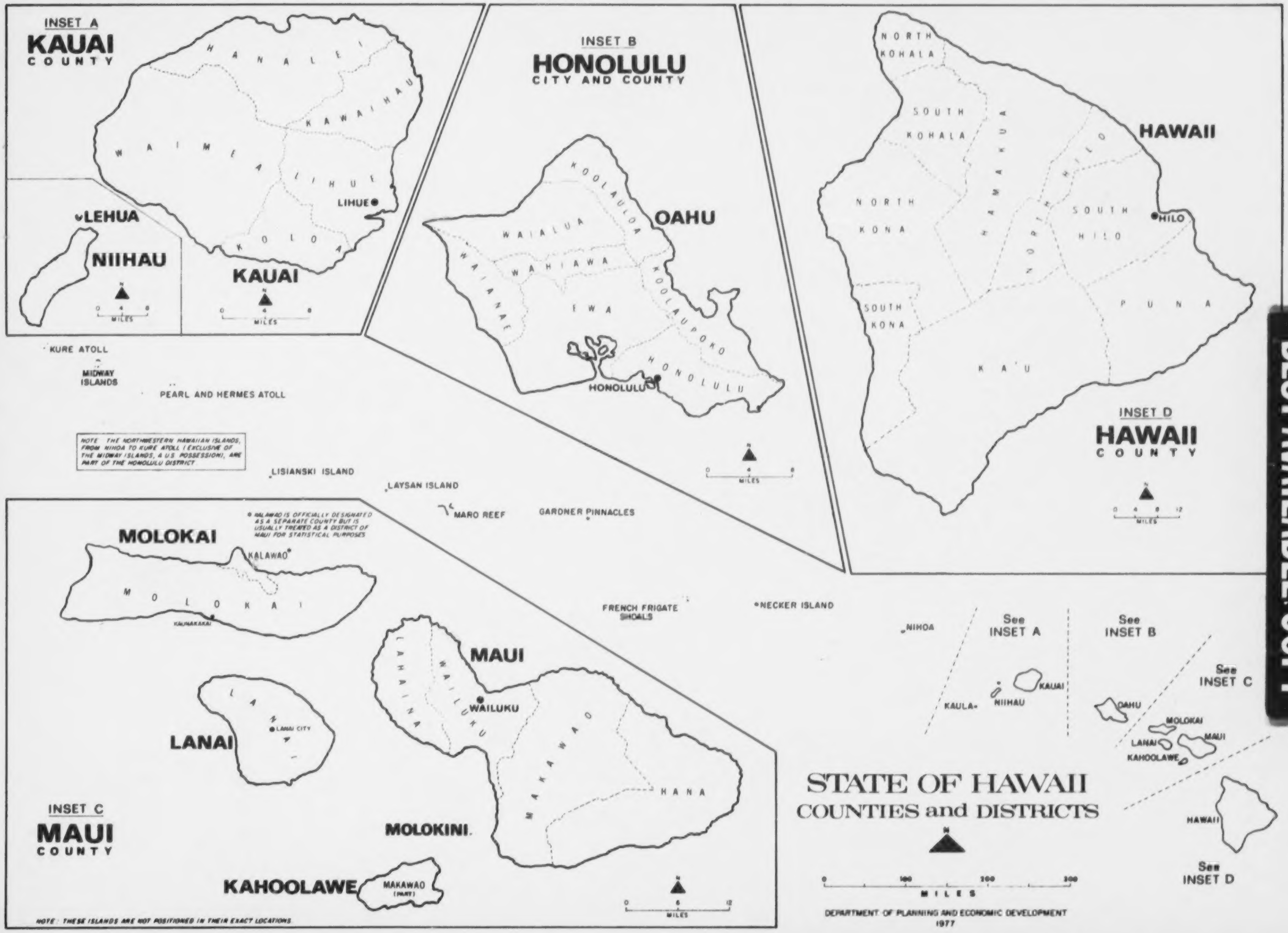
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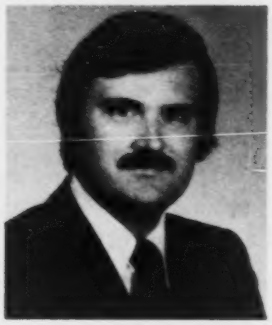
STATE OF HAWAII
COUNTIES and DISTRICTS

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT.

● KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS.

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977



INTRODUCTION

By Kent M. Keith, Director
Department of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as a convenient volume of statistical reference and as a guide to other statistical publications and sources.

The present volume, containing statistics available in the summer of 1983, is the seventeenth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them are now out of print, but copies can be found in many high school, university, and public libraries in Hawaii.

The Data Book follows closely the organization and format of the U.S. Abstract, to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Largely as a result of federal budget reductions, many important statistical series have been suspended or terminated. Examples include the annual counts of aliens, comprehensive long-term meteorological data, the National Travel Survey, turnover in manufacturing employment, union membership, work stoppages, food prices, comparative family budgets, broadcast revenues and expenditures, passenger movements in Honolulu Harbor, fishery establishments, unsold housing inventory, the annual survey of manufactures by States, and department store sales. Many other statistical reports, particularly those from the 1980 decennial census, have been delayed long beyond their planned release dates.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

-	Represents zero or rounds to less than half the unit of measurement shown.
D	Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
NA	Data not enumerated, tabulated, or otherwise available separately.
...	Same as NA; used in tables in which a large number of cells lack data.

In many tables, details will not add to the totals shown because of rounding.

Median: The value which divides the distribution into two equal parts--one-half the cases falling below this value and one-half exceeding it.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

The 1980 census reported a resident population of 964,691. This total included approximately 57,000 members of the armed forces and 64,000 of their dependents. It excluded more than 97,000 visitors who were present on an average day in 1980, while including around 10,000 residents who were temporarily out of the State. The total population has risen from 58,000 in 1878 to 154,000 in 1900 and 423,000 in 1940. Provisional Statewide estimates for 1982 indicated a resident population of 994,000 and a de facto total of 1,084,000. Almost four-fifths of the 1980 de facto total lived on Oahu, giving that island a density of 1,385 persons per square mile. The population is young -- the median age in 1980 was 28.3 years — and racially diversified. The major unmixed groups in 1982 were Caucasians (25.5 percent of the non-barracks, non-institutional population) and Japanese (22.3 percent). In addition, 28.8 percent were of mixed race, primarily part Hawaiian. The 1980 census reported 299,000 households and 226,000 families in the State. The average household size was 3.15. Migration has been a major factor in the growth of the population: between 1970 and 1980, there was a net in-migration (excluding military personnel and dependents) of 105,000, accounting for 55 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1983 exceeded 5,200, mostly from the Philippines and Korea.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary classification of persons of mixed race in the 1970 and 1980 U.S. Censuses. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, and the ongoing series on migration maintained by the Hawaii Visitors Bureau and U.S. Immigration and Naturalization Service. The Department of Planning and

Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Another annual report distributed by DPED contains population estimates for Oahu census tracts. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1982-83.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1980

[Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii.]

Census date	Total population		Urban 1/		Rural 2/	
	Number	Percent change 3/	Places	Population	Population	Percent of total
1831-32 4/	129,814	...	1	13,344	116,470	89.7
1835-36 5/	108,568	-4.5	1	12,994	95,574	88.0
1850: January	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27	109,020	3.3	1	29,920	79,100	72.6
1900: June 1	154,001	9.4	1	39,306	114,695	74.5
1910: April 15	191,874	2.2	2	58,928	132,946	69.3
1920: January 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1	368,300	3.6	12	197,937	170,363	46.3
1940: April 1	422,770	1.4	17	264,262	158,508	37.5
1950: April 1	499,794	1.7	17	344,869	154,925	31.0
1960: April 1	632,772	2.4	19	483,961	148,811	23.5
1970: April 1	769,913	2.0	34	643,222	126,691	16.5
1980: April 1	964,691	2.3	42	834,592	130,099	13.5

1/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

2/ The rural population includes all persons living outside urban places.

3/ Annual rate since the preceding census, based on the formula for continuous compounding.

4/ Total population also reported as 130,313.

5/ Total population also reported as 108,393 and 108,579.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8; U. S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 1, as corrected.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1983

[Excludes visitors present but includes residents temporarily absent.]

Year	Total resident population	Armed forces 1/	Civilian population		
			All civilians	Military dependents 2/	Not military dependents
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	776,000	53,200	722,800	57,800	665,000
1971: July 1 ..	801,000	50,800	750,200	62,200	688,000
1972: July 1 ..	828,000	52,000	776,000	66,200	709,800
1973: July 1 ..	851,000	58,100	792,900	70,300	722,600
1974: July 1 ..	867,000	57,500	809,500	68,300	741,200
1975: July 1 ..	884,000	58,900	825,100	63,700	761,400
1976: July 1 ..	902,000	57,800	844,200	67,000	777,200
1977: July 1 ..	916,000	56,500	859,500	65,000	794,500
1978: July 1 ..	929,000	58,300	870,700	61,100	809,600
1979: July 1 ..	950,000	57,900	892,100	64,500	827,600
1980: April 1 .	964,691	57,056	907,635	64,023	843,612
July 1 ..	969,000	57,900	911,100	64,100	847,000
1981: July 1 ..	980,900	56,600	924,300	64,300	860,000
1982: July 1 ..	996,700	54,900	941,800	66,700	875,100
1983: July 1 ..	1,023,200	59,000	964,200	66,300	898,000

1/ These figures are the estimates prepared by the U.S. Bureau of the Census for use in State population estimation, and differ somewhat from the data compiled by the Hawaii State Department of Planning and Economic Development (and published annually in Military Personnel and Dependents in Hawaii).

2/ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), table 1, and unpublished provisional estimates for 1980-1983.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1983

Year	Resident population 1/		De facto population 2/	
	Total	Temporarily absent 3/	Total	Visitors present 3/
1970: April 1 ..	769,913	10,300	796,500	36,900
July 1 ...	776,000	10,000	802,900	36,900
1971: July 1 ...	801,000	9,400	832,500	40,900
1972: July 1 ...	828,000	8,600	869,500	50,100
1973: July 1 ...	857,000	9,800	900,700	59,600
1974: July 1 ...	867,000	7,800	922,800	63,500
1975: July 1 ...	884,000	9,000	941,300	66,300
1976: July 1 ...	902,000	9,400	968,100	75,500
1977: July 1 ...	916,000	9,000	990,000	83,000
1978: July 1 ...	929,000	9,300	1,011,700	92,000
1979: July 1 ...	950,000	9,300	1,039,400	98,700
1980: April 1 ..	964,691	9,600	1,052,700	97,600
July 1 ...	969,000	9,600	1,055,900	96,500
1981: July 1 ...	980,900	11,600	1,065,300	96,000
1982: July 1 ...	996,700	14,500	1,087,200	105,000
1983: July 1 ...	1,023,200	12,100	1,118,600	107,500

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of usual place of residence; it includes visitors present but excludes residents temporarily absent.

3/ Averages for 12-month periods centered on the estimate or census dates.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), table 2, and unpublished provisional estimates for 1980-1983.

Table 4.-- RESIDENT POPULATION OF ISLANDS, FOR THE CENTRAL PACIFIC OCEAN: 1940 TO 1980

Island	1940	1950	1960	1970	1980
State of Hawaii	422,770	499,794	632,772	769,913	964,691
Hawaii	73,276	68,350	61,332	63,468	92,053
Kahoolawe	1	-	-	-	-
Maui 1/	46,919	40,103	35,717	38,691	62,823
Lanai	3,720	3,136	2,115	2,204	2,119
Molokai	5,340	5,280	5,023	5,261	6,049
Oahu area	257,664	353,006	500,394	630,497	762,534
Oahu	(NA)	(NA)	(NA)	629,631	761,925
Sand Island	(NA)	(NA)	36	56	60
Mokauea Island	(NA)	(NA)		12	11
Ford Island	(NA)	(NA)	(NA)	798	522
Moku o Loe	(NA)	(NA)	(NA)	-	16
Kauai	35,636	29,683	27,922	29,524	38,856
Niihau 2/	182	222	254	237	226
Northwestern Haw'n Islands 3/ ..	-	14	15	31	31
French Frigate Shoals	-	14	(NA)	(NA)	4
Laysan Island	-	-	(NA)	(NA)	5
Kure Atoll	-	-	(NA)	(NA)	22
Midway Islands 4/	437	416	2,356	2,220	453
Johnston Atoll 4/	69	46	156	1,007	327
Kingman Reef 4/	-	-	-	-	-
Palmyra Atoll 5/	32	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Lehua and Kaula, uninhabited.

3/ Including Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll, all uninhabited.

4/ Not part of the Territory or State of Hawaii.

5/ Part of the Territory of Hawaii but not part of the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics.

Table 5.-- POPULATION, RESIDENT AND DE FACTO, BY COUNTIES: 1970 TO 1982

Type of population and date		State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
RESIDENT 2/						
1970:	April 1 ...	769,913	630,528	63,468	29,761	46,156
	July 1	776,000	634,700	64,500	30,100	46,700
1971:	July 1	801,000	654,400	67,200	31,100	48,300
1972:	July 1	828,000	675,700	70,200	31,800	50,300
1973:	July 1	851,000	693,400	72,900	32,600	52,100
1974:	July 1	867,000	704,300	75,600	32,800	54,300
1975:	July 1	884,000	714,300	78,100	34,100	57,500
1976:	July 1	902,000	726,000	80,600	35,200	60,200
1977:	July 1	916,000	733,800	83,000	36,200	63,000
1978:	July 1	929,000	740,300	85,700	37,000	66,000
1979:	July 1	950,000	754,000	89,000	38,100	68,900
1980:	April 1 ...	964,691	762,565	92,053	39,082	70,991
	July 1	969,000	765,000	92,800	39,300	71,900
1981:	July 1	980,900	769,300	95,900	40,000	75,600
1982:	July 1	996,700	777,500	98,300	40,900	80,000
DE FACTO 3/						
1970:	April 1 ...	796,500	650,700	65,700	31,800	48,400
	July 1	802,900	653,300	67,300	32,600	49,700
1971:	July 1	832,500	675,100	70,800	34,200	52,300
1972:	July 1	869,500	703,000	74,800	35,700	56,000
1973:	July 1	900,700	728,300	77,700	36,600	58,100
1974:	July 1	922,800	743,100	81,100	37,100	61,400
1975:	July 1	941,300	752,800	84,000	38,800	65,700
1976:	July 1	968,100	770,700	86,800	40,400	70,300
1977:	July 1	990,000	783,600	89,500	42,000	74,900
1978:	July 1	1,011,700	794,900	93,100	43,800	79,900
1979:	July 1	1,039,400	814,000	96,300	45,200	83,900
1980:	April 1 ...	1,052,700	822,000	98,700	46,100	85,900
	July 1	1,055,900	823,700	99,300	46,300	86,700
1981:	July 1	1,065,300	826,400	101,500	46,900	90,500
1982:	July 1	1,087,200	837,500	104,000	47,800	97,800

1/ Including Kalawao County (Kalaupapa Settlement).
2/ For definition, see table 3, footnote 1.
3/ For definition, see table 3, footnote 2.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), table 3; County Trends in Hawaii, 1970-1982 (Statistical Report 160, July 6, 1983), table 2; and Provisional Estimates of the Population of Hawaii, 1980-1982 (Statistical Memorandum 83-4, May 4, 1983), table 3, as revised.

Table 6.-- DE FACTO POPULATION, 1970 AND 1980, AND DENSITY, 1980, OF COUNTIES AND ISLANDS

[Includes visitors present and excludes residents temporarily absent, both calculated as annual averages centered on the census date.]

County and island	De facto population 1/			De facto density, 1980 2/	
	April 1, 1970	April 1, 1980	Percent change	Per square mile	Per square km.
State total	796,500	1,052,700	32.2	163.8	63.3
City and County of Honolulu	650,700	822,000	26.3	1,378.5	532.2
Oahu	650,700	822,000	26.3	1,384.7	534.7
Outlying islands 3/	31	31	0	11.5	4.4
Other counties	145,800	230,700	58.2	39.6	15.3
Hawaii	65,700	98,700	50.3	24.5	9.4
Kauai	31,800	46,100	45.3	74.4	28.7
Kauai	31,500	45,900	45.7	83.6	32.3
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	3.2	1.3
Maui and Kalawao.........	48,400	85,900	77.3	73.1	28.2
Kahoolawe	-	-	...	-	-
Lanai	2,200	2,100	-3.4	15.2	5.9
Maui	40,900	76,800	87.8	105.4	40.7
Molokai	5,300	6,900	30.2	26.5	10.2
Kalawao	172	144	-16.3	10.8	4.2
Rest of Molokai	5,100	6,800	31.7	27.3	10.5

1/ These estimates have been independently rounded to the nearest 100 (except for the smallest areas) and hence may not add exactly to the indicated totals.

2/ Revised from Data Book 1982, table 6.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, but excluding Midway.

Source: Estimated by the Hawaii State Department of Planning and Economic Development, from 1980 resident population counts in 1980 Census of Population, PC80-1-A13, Hawaii (October 1981) table 4; data on visitors present and residents absent supplied by the Hawaii Visitors Bureau; and area estimates from the Geography Division of the U.S. Bureau of the Census.

Table 7.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1960 TO 1980

County and district 1/	April 1, 1960	April 1, 1970	April 1, 1980	Percent change 1960 to 1970	Percent change 1970 to 1980
The State	632,772	769,913	964,691	21.7	25.3
Honolulu	500,409	630,528	762,565	26.0	20.9
Honolulu	294,194	324,871	365,048	10.4	12.4
Koolaupoko	60,238	92,219	109,373	53.1	18.6
Koolauloa	8,043	10,562	14,195	31.3	34.9
Waialua	8,221	9,171	9,849	11.6	7.4
Wahiawa	34,595	37,329	41,562	7.9	11.3
Waianae	16,452	24,077	31,487	46.3	30.8
Ewa	78,666	132,299	191,051	68.2	44.4
Hawaii	61,332	63,468	92,053	3.5	45.0
Puna	5,030	5,154	11,751	2.5	128.0
South Hilo	31,553	33,915	42,278	7.5	24.7
North Hilo	2,493	1,881	1,679	-24.5	-10.7
Hamakua	5,221	4,648	5,128	-11.0	10.3
North Kohala	3,386	3,326	3,249	-1.8	-2.3
South Kohala	1,538	2,310	4,607	50.2	99.4
North Kona	4,451	4,832	13,748	8.6	184.5
South Kona	4,292	4,004	5,914	-6.7	47.7
Ka'u	3,368	3,398	3,699	0.9	8.9
Maui and Kalawao ..	42,855	46,156	70,991	7.7	53.8
Hana	1,073	969	1,423	-9.7	46.9
Makawao	10,409	9,979	19,005	-4.1	90.4
Wailuku	19,391	22,219	32,111	14.6	44.5
Lahaina	4,844	5,524	10,284	14.0	86.2
Lanai	2,115	2,204	2,119	4.2	-3.9
Molokai	4,744	5,089	5,905	7.3	16.0
Kalawao	279	172	144	-38.4	-16.3
Kauai	28,176	29,761	39,082	5.6	31.3
Waimea	7,057	7,569	8,593	7.3	13.5
Koloa	7,012	6,851	8,734	-2.3	27.5
Lihue	6,297	6,766	8,590	7.4	27.0
Kawaihau	6,498	7,393	10,497	13.8	42.0
Hanalei	1,312	1,182	2,668	-9.9	125.7

1/ For county and district boundaries, see map on page 6.

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes, 1976 Replacement. Boundaries of a number of places, most notably Kailua in Hawaii County, were significantly altered between 1970 and 1980, and the 1970 and 1980 population counts accordingly refer to different areas. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political.]

Island and place	Land area, 1980 (acres)	Resident population		
		1970 1/	1980	Percent change
Hawaii	2,583,680	63,468	92,053	45.0
Captain Cook	4,800	1,263	2,008	59.0
Hakalau	701	742	250	-66.3
Hawi	674	797	795	-0.3
Hilo	35,929	26,353	35,269	33.8
Holualoa 2/	2,767	(NA)	1,243	(NA)
Honokaa	882	1,555	1,936	24.5
Honomu	301	737	559	-24.2
Kailua	4,988	365	4,751	1,201.6
Kainaliu 2/	1,039	(NA)	512	(NA)
Kapaau	1,234	237	612	158.2
Keaau	620	951	775	-18.5
Kealakekua	1,327	740	1,033	39.6
Kukuihaele	1,120	310	332	7.1
Laupahoehoe	1,139	452	500	10.6
Makapala	823	201	186	-7.5
Mountain View	1,032	419	540	28.9
Naalehu	2,541	1,014	1,168	15.2
Ookala	374	486	401	-17.5
Paauilo	773	710	755	6.3
Pahala	637	1,507	1,619	7.4
Pahoa	1,461	924	923	-0.1
Papaaloa	297	319	264	-17.2
Papaikou	921	1,888	1,567	-17.0
Paukaa 2/	266	(NA)	544	(NA)
Puako 2/	2,707	(NA)	257	(NA)
Waimea	652	756	1,179	56.0
Wainaku 2/	275	(NA)	1,045	(NA)
Remainder of island	2,513,400	20,742	31,030	49.6

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970
AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population		
		1970 1/	1980	Percent change
Maui and Molokini	466,048	38,691	62,823	62.4
Haiku	194	464	619	33.4
Haliimaile	150	638	741	16.1
Hana	1,521	459	643	40.1
Honokahua	545	431	309	-28.3
Kaanapali 2/	852	(NA)	541	(NA)
Kahului	2,888	8,280	12,978	56.7
Kihei 2/	2,099	(NA)	5,644	(NA)
Lahaina	1,150	3,718	6,095	63.9
Lower Paia	626	1,105	1,500	35.7
Makawao	1,111	1,066	2,900	172.0
Napili-Honokowai 2/ ..	482	(NA)	2,446	(NA)
Paia	630	541	193	-64.3
Pauwela	234	355	468	31.8
Pukalani	1,478	1,629	3,950	142.5
Puunene	340	1,132	572	-49.5
Waihee	278	346	413	19.4
Waikapu	257	598	698	16.7
Wailea 2/	1,348	(NA)	1,124	(NA)
Wailuku	2,283	7,979	10,260	28.6
Remainder of island ..	447,582	9,950	10,729	7.8
Kahoolawe	28,800	-	-	-
Lanai	89,280	2,204	2,119	-3.9
Lanai City	154	2,122	2,092	-1.4
Remainder of island ..	89,126	82	27	-67.1
Molokai	166,976	5,261	6,049	15.0
Kaunakakai	1,289	1,070	2,231	108.5
Kualapuu	52	441	502	13.8
Maunaloa	99	872	633	-27.4
Remainder of island ..	165,536	2,878	2,683	-6.8
Oahu	379,328	630,497	762,534	20.9
Ahuimanu 2/	1,646	(NA)	6,238	(NA)
Aiea 3/	3,716	25,106	32,879	31.0
Barbers Point Housing.	149	3,187	1,373	-56.9
Ewa	627	2,906	2,637	-9.3
Ewa Beach	882	7,765	14,369	85.0

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES — Con.

Island and place	Land area, 1980 (acres)	Resident population		
		1970 1/	1980	Percent change
Oahu (con.):				
Haleiwa	1,207	2,626	2,412	-8.1
Hauula	1,006	2,048	2,997	46.3
Heeia 2/	931	(NA)	5,432	(NA)
Hickam Housing 3/	776	7,352	4,425	-39.8
Honolulu 4/...........	51,828	324,840	365,017	12.4
Iroquois Point 3/	403	4,572	3,915	-14.4
Kaaawa	367	848	959	13.1
Kahaluu	841	1,657	2,925	76.5
Kahuku	566	917	935	2.0
Kailua	4,470	33,783	35,812	6.0
Kaneohe 5/	3,886	29,903	29,919	0.1
Laie	781	3,009	4,643	54.3
Maili	573	4,397	5,026	14.3
Makaha	1,600	4,644	6,582	41.7
Makakilo City	1,791	3,499	7,691	119.8
Maunawili	2,230	5,303	5,239	-1.2
Mililani Town	2,354	2,035	21,365	949.9
Mokapu	2,718	7,860	11,615	47.8
Nanakuli	1,602	6,506	8,185	25.8
Pearl City 6/	5,449	27,398	42,575	55.4
Schofield Barracks 3/ ...	1,849	13,516	18,851	39.5
Wahiawa	1,492	17,598	16,911	-3.9
Waialua	784	4,047	4,051	0.1
Waianae	2,194	3,302	7,941	140.5
Waimanalo	255	2,081	3,562	71.2
Waimanalo Beach	973	3,045	4,161	36.7
Waipahu	1,815	24,150	29,139	20.7
Waipio Acres	447	2,146	4,091	90.6
Whitmore Village	470	2,015	2,318	15.0
Remainder of island ..	276,650	52,882	46,344	-12.4
Kauai	351,168	29,524	38,856	31.6
Anahola	860	638	915	43.4
Eleele	350	758	580	-23.5
Hanalei	434	153	483	215.7
Hanamaulu	508	2,461	3,227	31.1
Hanapepe	580	1,388	1,417	2.1
Kalaheo	1,152	1,514	2,500	65.1
Kapaa	2,415	3,794	4,467	17.7
Kaumakani	559	1,014	888	-12.4
Kekaha	646	2,404	3,260	35.6

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population		
		1970 1/	1980	Percent change
Kauai (con.):				
Kilauea	348	671	895	33.4
Koloa	722	1,368	1,457	6.5
Lihue	3,959	3,124	4,000	28.0
Poipu	587	466	685	47.0
Princeville 2/	1,367	(NA)	500	(NA)
Puhi	129	772	991	28.4
Wailua	763	1,379	1,587	15.1
Waimea	624	1,569	1,569	-
Remainder of island	335,165	6,288	9,435	50.0
Niihau, Lehua and Kaula	45,067	237	226	-4.6
Northwestern Hawaiian Islands, exc. Midway	1,895	31	31	-

NA Not available.

1/ Unless otherwise indicated, the 1970 totals shown here refer to the area as bounded for the 1970 census rather than the area defined for 1980.

2/ These places were newly defined for 1980.

3/ Aiea was redefined for 1980 to include four places shown separately in 1970: Aiea (12,560), Foster Village (3,755), Halawa Heights (5,809), and Waimalu (2,982). The 1970 population shown here is the sum of the figures for the separate places.

4/ Excluding the Northwestern Hawaiian Islands (1,895 acres; 31 inhabitants in both 1970 and 1980), legally part of Honolulu. Including the Northwestern Hawaiian Islands, Honolulu had a land area of 53,723 acres and a population of 324,871 in 1970 and 365,048 in 1980.

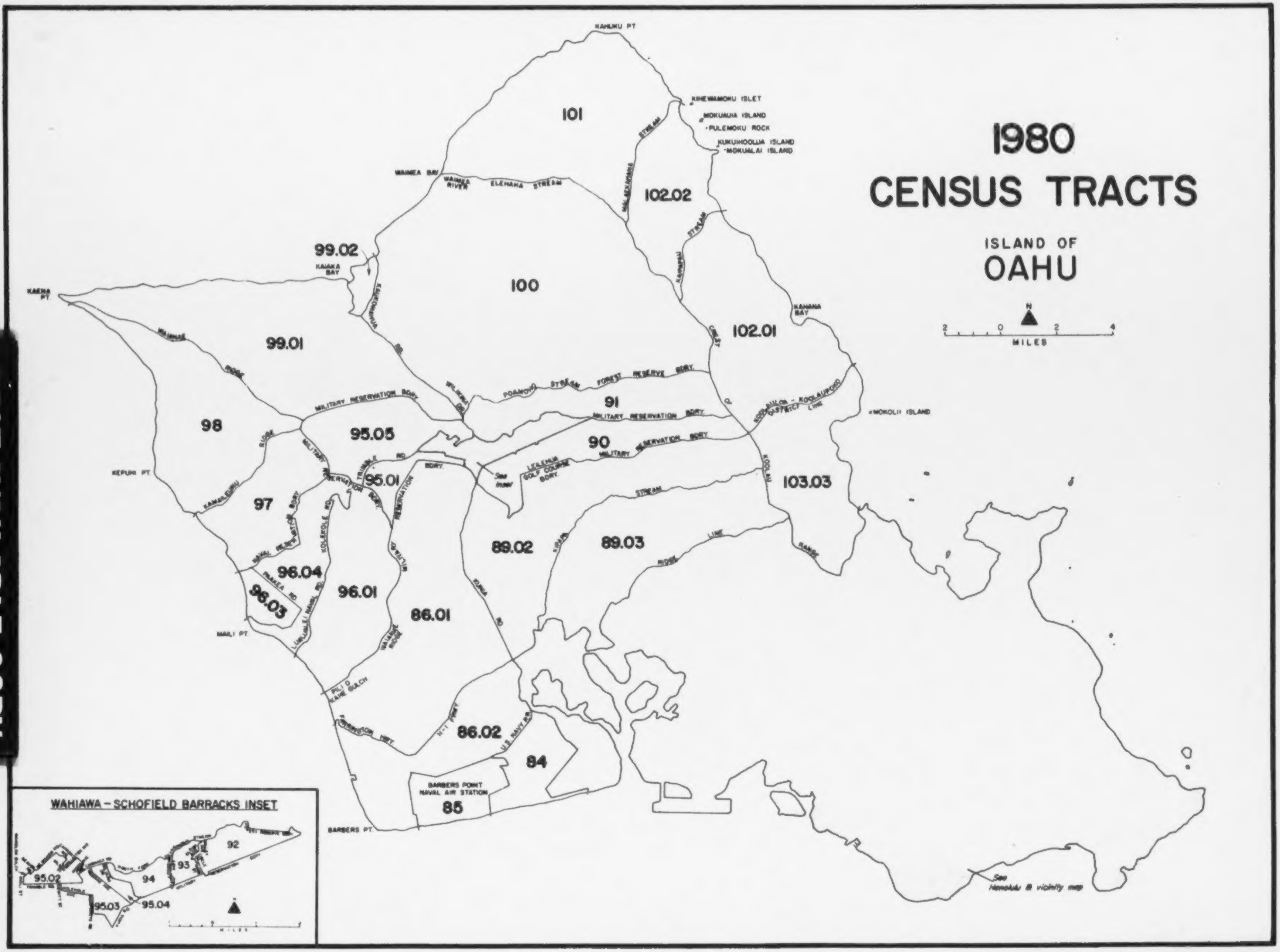
5/ Heeia (5,432 in 1980) included with Kaneohe in 1970 but not in 1980. The 1970 population within the 1980 boundaries of Kaneohe was 26,998. The 1980 population within the 1970 boundaries of Kaneohe was 35,351.

6/ Pearl City was redefined for 1980 to include two places shown separately in 1970: Pacific Palisades (7,846) and Pearl City (19,552). The 1970 population shown here is the sum of the figures for those two places.

Source: Area from Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980). Population from U.S. Bureau of the Census, U.S. Census of Population: 1970, PC(1)-A13, Hawaii (April 1971), tables 6 and 9 and correction note; 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4; and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

1980 CENSUS TRACTS

ISLAND OF OAHU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WAIMEA BAY
WAIMEA RIVER
ELEHAHA STREAM
KAIAKA BAY
KAENA PT
KEPUHI PT
MAILI PT
BARBERS PT
KAHANA BAY
MOKOLII ISLAND
WAIANAE RIDGE
KAMAILEUNU RIDGE
MILITARY RESERVATION BDRY.
POAMOHO STREAM FOREST RESERVE BDRY.
LEILEHUA GOLF COURSE BDRY.
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
KOOLAU RANGE
KIPAPA
STREAM
RIDGE LINE
KUNIA RD
TRIMBLE RD
KOLEKOLE RD
PAAKEA RD
LUALUALEI NAVAL RD
NAVAL RESERVATION BDRY.
PILI O KAHE GULCH
FARRINGTON HWY
H-1 FWY
U.S. NAVY RR
See Inset
See Honolulu & vicinity map
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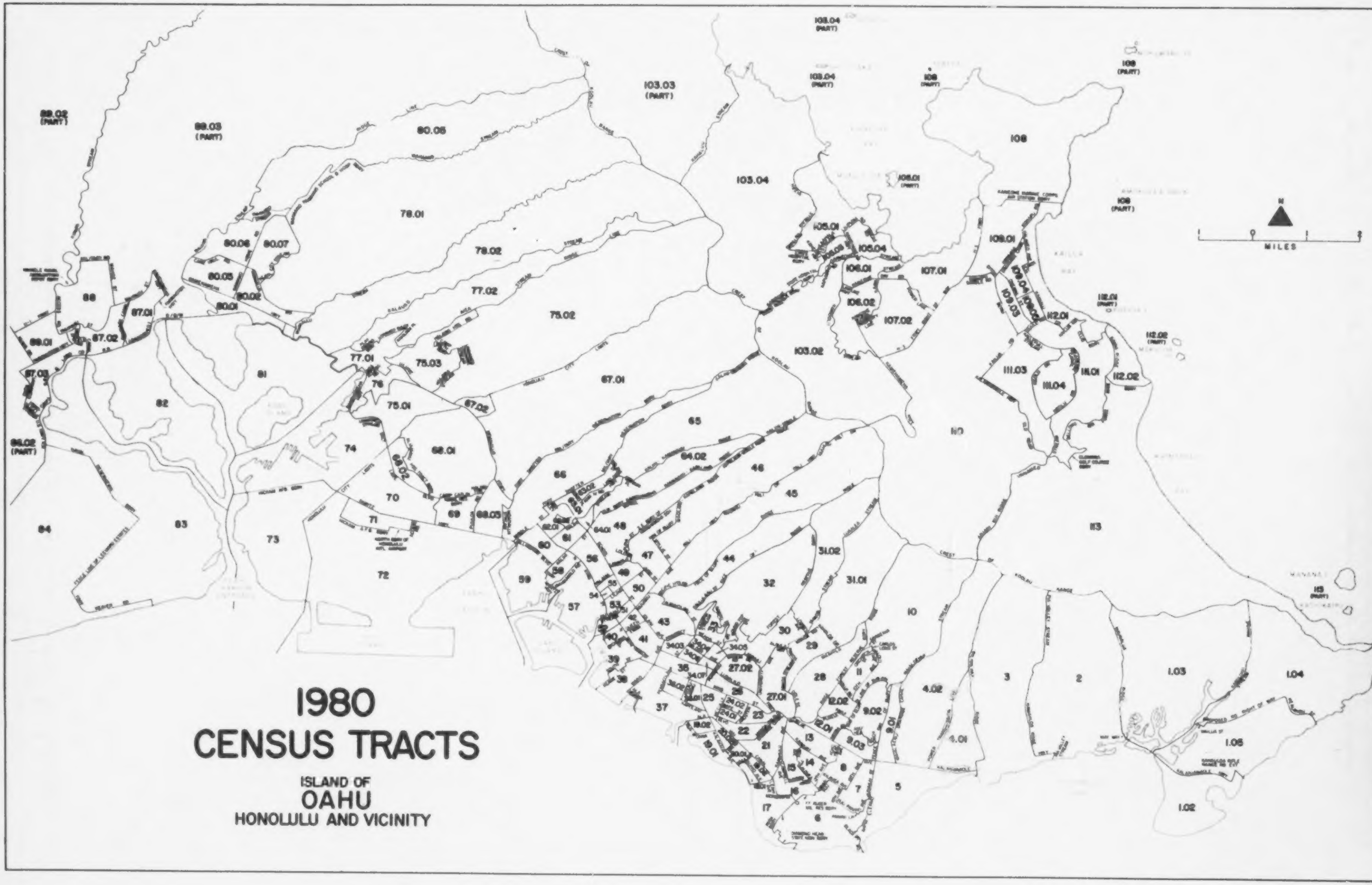
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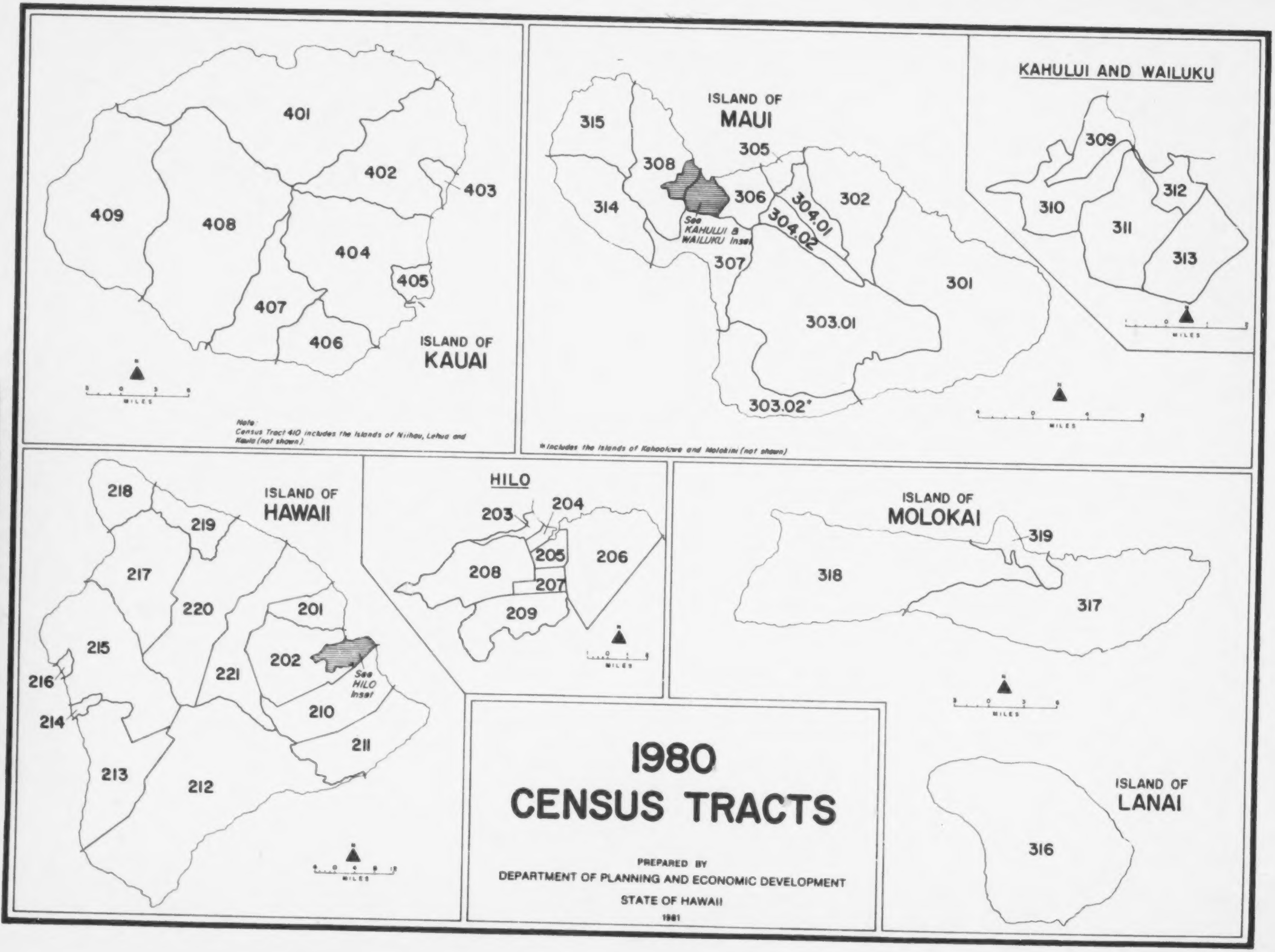
1980
CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY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MILES
ISLAND OF MOLOKAI
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MILES
ISLAND OF LANAI
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Note:
Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).

* Includes the Islands of Kahoolawe and Molokini (not shown)

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

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Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
State total	4,112,128	964,691	769,913	25.3	0.2	294,052
City and County of Honolulu 2/	381,632	762,565	630,528	20.9	2.0	230,214
Honolulu CCD	56,783	365,048	324,871	12.4	6.4	127,139
1.02	778	2,067	1,915	7.9	2.7	599
1.03	2,989	10,784	3,243	232.5	3.6	3,462
1.04 (1.01 pt.) .	2,264	7,202	1,834	292.7	3.2	1,947
1.05 (1.01 pt.) .	1,386	5,550	5,580	0.5	4.0	1,510
2	2,711	4,970	5,123	-3.0	1.8	1,485
3	2,301	5,518	6,485	-14.9	2.4	1,696
4.01	582	2,734	1,571	74.0	4.7	804
4.02	1,618	3,438	2,898	18.6	2.1	1,064
5	698	4,711	5,253	-10.3	6.7	1,668
6	790	1,654	2,025	-18.3	2.1	556
7	235	3,350	3,794	-11.7	14.3	1,022
8	221	4,137	4,599	-10.0	18.7	1,288
9.01	219	2,621	2,773	-5.5	12.0	925
9.02	332	3,912	4,392	-10.9	11.8	1,324
9.03	153	2,932	3,514	-16.6	19.2	1,005
10	2,202	3,213	3,650	-12.0	1.5	924
11	190	4,077	4,586	-11.1	21.5	1,025
12.01	138	3,227	3,657	-11.8	23.4	1,052
12.02	158	3,593	4,231	-15.1	22.7	1,091
13	224	4,642	5,146	-9.8	20.7	1,569
14	119	2,797	2,990	-6.5	23.5	846
15	138	3,857	4,345	-11.2	27.9	1,267
16	148	4,617	4,783	-3.5	31.2	1,475
17	348	2,492	2,559	-2.6	7.2	1,358
18.01	40	1,140	1,286	-11.4	28.5	668
18.02	69	3,259	2,774	17.5	47.2	1,733
19.01	316	1,412	1,111	27.1	4.5	868
19.02	55	5,413	3,368	60.7	98.4	3,064
20.01	73	2,560	2,186	17.1	35.1	1,445
20.02	65	3,600	2,399	50.1	55.4	2,074
21	279	3,619	3,347	8.1	13.0	1,558
22	127	6,782	3,796	78.7	53.4	3,148
23	90	5,073	4,195	20.9	56.4	2,410
24.01	40	2,912	3,060	-4.8	72.8	1,293
24.02	63	3,042	2,818	7.9	48.3	1,395

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS — Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Honolulu CCD, con.						
25	104	4,016	4,242	-5.3	38.6	1,885
26	167	4,819	5,163	-6.7	28.9	2,057
27.01	366	5,291	3,675	44.0	14.5	693
27.02	253	5,344	5,039	6.1	21.1	2,111
28	582	3,679	4,316	-14.8	6.3	1,202
29	280	1,583	1,591	-0.5	5.7	448
30	380	4,491	4,966	-9.6	11.8	1,611
31.01	1,302	3,923	4,403	-10.9	3.0	1,150
31.02	989	3,716	4,030	-7.8	3.8	1,106
32	1,425	1,132	1,218	-7.1	0.8	351
33	148	1,069	1,145	-6.6	7.2	310
34.03	85	5,074	4,267	18.9	59.7	2,564
34.04 (34.01 pt.)	65	4,511	3,114	44.9	69.4	2,203
34.05 (34.01 pt.)	42	3,014	2,771	8.8	71.8	1,689
34.06 (34.02 pt.)	60	5,238	4,010	30.6	87.3	2,553
34.07 (34.02 pt.)	29	1,033	751	37.5	35.6	618
35	181	4,399	4,308	2.1	24.3	2,198
36.01	86	4,326	2,916	48.4	50.3	2,590
36.02	90	2,661	2,654	0.3	29.6	1,246
37	450	2,477	1,349	83.6	5.5	1,401
38	287	387	523	-26.0	1.3	155
38.99 3/	...	-	314	-100.0	...	-
39	291	115	263	-56.3	0.4	73
39.99 3/	...	108	134	-19.4	...	-
40	70	820	100	720.0	11.7	498
41	165	4,320	4,097	5.4	26.2	2,240
42	63	2,637	1,162	126.9	41.9	1,524
43	323	5,339	5,628	-5.1	16.5	2,163
44	867	5,274	6,142	-14.1	6.1	1,486
45	1,955	5,042	4,780	5.5	2.6	1,800
46	1,751	3,928	4,377	-10.3	2.2	1,187
47	343	4,893	5,500	-11.0	14.3	1,495
48	831	6,146	6,608	-7.0	7.4	1,720
49	99	3,165	3,292	-3.9	32.0	982
50	130	4,075	3,973	2.6	31.3	1,368
51	46	1,611	-	...	35.0	759
52	41	858	1,405	-38.9	20.9	248

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Honolulu CCD, con.						
53	84	4,529	482	839.6	53.9	1,506
54	22	1,718	1,862	-7.7	78.1	409
55	53	2,106	1,975	6.6	39.7	636
56	227	5,794	5,768	0.5	25.5	1,550
57	1,123	1,556	2,615	-40.5	1.4	752
57.99 3/	...	592	134	341.8	...	-
58	123	3,524	3,163	11.4	28.7	1,030
59	566	3,854	4,388	-12.2	6.8	1,055
59.99 3/	...	21	61	-65.6	...	-
60	176	5,663	6,711	-15.6	32.2	1,352
61	113	3,381	3,262	3.6	29.9	773
62.01	130	4,741	4,295	10.4	36.5	1,165
62.02	24	2,665	2,523	5.6	111.0	609
63.01	171	3,315	3,713	-10.7	19.4	732
63.02	123	2,945	3,083	-4.5	23.9	549
64.01	46	1,737	1,400	24.1	37.8	348
64.02	646	5,579	5,280	5.7	8.6	1,321
65	2,311	4,037	4,011	0.6	1.7	935
66	1,418	2,716	3,424	-20.7	1.9	696
67.01	4,726	7,477	7,502	-0.3	1.6	1,851
67.02	105	2,755	2,317	18.9	26.2	853
68.01	1,273	20,689	2,968	597.1	16.3	6,568
68.02	163	4,890	4,532	7.9	30.0	1,176
68.03	277	-	-	...	-	-
69	280	3,109	3,694	-15.8	11.1	913
70	704	4,251	4,899	-13.2	6.0	1,294
71	227	2,588	1,402	84.6	11.4	609
72	3,446	1,364	3,864	-64.7	0.4	155
114	1,722	31	31	0	0.02	-
Rest of Oahu	324,843	397,517	305,657	30.1	1.2	103,075
73	1,661	6,393	7,530	-15.1	3.8	1,732
73.99 3/	...	-	3,034	-100.0	...	-
74	1,313	3,138	4,016	-21.9	2.4	713
74.99 3/	...	7,593	5,070	49.8	...	-
75.01	563	7,467	4,946	51.0	13.3	2,005
75.02	5,070	444	1,496	-70.3	0.1	16
75.03	559	4,865	4,982	-2.3	8.7	1,306

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Rest of Oahu, con.						
76	212	1,556	2,934	-47.0	7.3	413
77.01	309	4,645	4,880	-4.8	15.0	1,210
77.02	1,420	4,838	4,752	1.8	3.4	1,421
78.01 (78 pt. and 79)	6,703	12,813	5,559	130.5	1.9	3,527
78.02 (78 pt.) ...	3,219	11,367	895	1,165.8	3.5	4,051
80.01	225	1,498	1,268	18.1	6.7	477
80.02	263	2,987	3,347	-10.8	11.4	826
80.03	360	3,377	2,811	20.1	9.4	895
80.05	3,100	7,465	7,846	-4.9	2.4	1,839
80.06 (80.04 pt.)	436	5,906	4,349	35.8	13.5	1,427
80.07 (80.04 pt.)	372	6,473	4,708	37.5	17.4	1,591
81	1,141	2,580	3,167	-18.5	2.3	607
81.99 3/	...	-	368	-100.0	...	-
82	1,858	-	-	...	-	-
83	3,182	12,437	4,759	161.3	3.9	2,861
84	4,194	7,643	7,801	-2.0	1.8	2,026
85	3,588	2,942	3,187	-7.7	0.8	772
86.01	21,413	8,559	4,226	102.5	0.4	2,337
86.02	9,832	4,653	4,114	13.1	0.5	1,143
86.99 3/	...	21	-	...	...	-
87.01	342	7,284	5,958	22.3	21.3	1,518
87.02	262	3,854	4,509	-14.5	14.7	911
87.03	421	3,468	2,238	55.0	8.2	1,116
88	688	4,484	3,429	30.8	6.5	992
89.01	330	7,861	7,328	7.3	23.8	1,984
89.02	17,739	25,874	4,420	485.4	1.5	7,764
89.03	14,467	6,566	2,369	177.2	0.5	1,626
90	6,609	2,413	2,783	-13.3	0.4	672
91	8,224	3,339	3,410	-2.1	0.4	798
92	715	7,420	6,637	11.8	10.4	2,195
93	298	4,451	4,875	-8.7	14.9	1,429
94	425	5,040	6,048	-16.7	11.9	1,743
95.01	1,862	3,587	3,762	-4.7	1.9	887
95.02	321	5,326	4,901	8.7	16.6	1,466
95.03	443	6,076	2,566	137.3	13.7	1
95.04	207	955	1,495	-36.1	4.6	249
95.05	6,212	2,955	858	244.4	0.5	831

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
City and County of Honolulu, con.						
Rest of Oahu, con.						
96.01	10,010	5,159	4,024	28.2	0.5	1,111
96.03 (96.02 pt.)	1,730	5,711	5,100	12.0	3.3	1,439
96.04 (96.02 pt.)	5,034	4,165	4,530	-8.1	0.8	975
97	7,603	10,524	6,020	74.8	1.4	2,697
98	13,753	5,928	4,403	34.6	0.4	1,742
99.01	22,302	5,350	4,529	18.1	0.2	1,613
99.02	998	2,620	2,817	-7.0	2.6	753
100	45,977	1,879	1,825	3.0	0.04	478
101	19,229	4,491	3,497	28.4	0.2	1,496
102.01	16,219	3,952	3,255	21.4	0.2	1,166
102.02	8,289	5,752	3,810	51.0	0.7	1,080
103.02	2,529	3,232	3,338	-3.2	1.3	817
103.03 (103.01 pt.)	10,356	3,593	3,413	5.3	0.3	1,013
103.04 (103.01 pt. and 104)	4,575	9,784	4,776	104.9	2.1	2,737
105.01	1,028	8,712	5,501	58.4	8.5	2,501
105.03 (105.02 pt.)	145	1,804	2,033	-11.3	12.4	510
105.04 (105.02 pt.)	308	4,794	4,956	-3.3	15.6	1,236
106.01	283	3,019	3,227	-6.4	10.7	835
106.02	491	4,994	5,105	-2.2	10.2	1,374
107.01	749	3,680	2,586	42.3	4.9	1,128
107.02	1,021	3,723	3,500	6.4	3.6	907
108	3,027	11,578	7,860	47.3	3.8	1,854
108.99 3/	...	37	-	...	...	-
109.01	826	3,161	3,374	-6.3	3.8	924
109.03 (109.02 pt.)	222	4,158	4,500	-7.6	18.7	1,263
109.04 (109.02 pt.)	232	3,506	3,874	-9.5	15.1	999
109.05 (109.02 pt.)	136	2,536	2,874	-11.8	18.6	794
110	6,809	4,218	3,957	6.6	0.6	1,115
111.01	1,112	7,966	6,352	25.4	7.2	2,384
111.03 (111.02 pt.)	807	3,872	2,145	80.5	4.8	1,017
111.04 (111.02 pt.)	484	5,370	4,858	10.5	11.1	1,462
112.01	575	4,841	5,377	-10.0	8.4	1,498
112.02	327	1,663	1,832	-9.2	5.1	643
113	7,100	9,132	6,777	34.7	1.3	2,137
Hawaii County	2,581,888	92,053	63,468	45.0	0.04	29,237
201	74,828	5,261	5,503	-4.4	0.07	1,558
202	154,950	1,748	2,059	-15.1	0.01	502
203	908	4,292	3,435	24.9	4.73	1,744

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Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS — Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
Hawaii County, con.						
204	710	4,003	3,531	13.4	5.64	1,342
205	1,672	5,672	4,604	23.2	3.39	1,826
205.99 3/	...	25	83	-69.9	...	-
206	12,808	3,702	2,989	23.9	0.29	1,132
207	2,022	7,690	5,231	47.0	3.80	2,285
208	10,894	7,017	4,865	44.2	0.64	2,047
209	7,200	2,868	1,615	77.6	0.40	815
210	147,610	7,055	3,802	85.6	0.05	2,381
211	129,318	4,696	1,352	247.3	0.04	1,450
212	636,742	3,699	3,398	8.9	0.01	1,108
213	233,112	3,560	1,563	127.8	0.02	1,107
214	18,489	2,354	2,441	-3.6	0.13	746
215	273,559	7,610	2,589	193.9	0.03	2,525
216	4,840	6,138	2,243	173.7	1.27	2,077
217	205,937	4,607	2,310	99.4	0.02	1,483
218	85,189	3,249	3,326	-2.3	0.04	1,022
219	74,636	3,287	2,829	16.2	0.04	1,042
220	262,985	1,841	1,819	1.2	0.01	535
221	243,479	1,679	1,881	-10.7	0.01	510
Maui and Kalawao Counties	751,936	70,991	46,156	53.8	0.09	22,581
Maui and Kahoolawe	495,104	62,823	38,691	62.4	0.13	20,162
301	148,941	1,423	969	46.9	0.01	435
302	38,548	3,567	2,067	72.6	0.09	1,096
303.01 (303 pt.)	92,037	3,850	2,024	90.2	0.04	1,317
303.02 (303 pt.)	45,442	1,227	100	1,227.0	0.03	474
304.01 (304 pt.)	10,430	4,366	2,494	75.1	0.42	1,341
304.02 (304 pt.)	10,892	4,285	1,629	163.0	0.39	1,254
305	4,931	1,710	1,665	2.7	0.35	553
306	12,743	220	781	-71.8	0.02	92
307	22,348	6,020	1,636	268.0	0.27	2,103
307.99 3/	...	15	-	...	...	-
308	39,252	1,584	1,299	21.9	0.04	461
309	435	6,542	4,537	44.2	15.04	2,041
310	782	4,132	4,547	-9.1	5.28	1,489
311	3,290	10,424	5,505	89.4	3.17	2,967
312	808	2,602	2,782	-6.5	3.22	893
313	2,689	572	1,132	-49.5	0.21	174
314	28,704	6,654	4,171	59.5	0.23	2,115
315	32,832	3,630	1,353	168.3	0.11	1,357

Continued on next page.

Table 9.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA, DENSITY, AND HOUSEHOLDS, 1980, FOR COUNTIES, ISLANDS AND CENSUS TRACTS — Con.

County, island and census tract 1/	Land area (acres)	Resident population			Population per acre, 1980	Households, 1980
		1980	1970	Percent change		
Maui and Kalawao Counties, con.						
Lanai	89,856	2,119	2,204	-3.9	0.02	650
316	89,856	2,119	2,204	-3.9	0.02	650
Molokai	166,976	6,049	5,261	15.0	0.04	1,769
317	83,328	3,574	2,574	38.9	0.04	1,044
318	75,136	2,331	2,515	-7.3	0.03	654
319 (Kalawao County)	8,512	144	172	-16.3	0.02	71
Kauai County	396,672	39,082	29,761	31.3	0.10	12,020
Kauai	351,616	38,856	29,524	31.6	0.11	11,979
401	80,166	2,668	1,182	125.7	0.03	902
402	42,294	6,030	3,599	67.5	0.14	1,829
403	2,179	4,467	3,794	17.7	2.05	1,425
404	50,368	4,590	3,642	26.0	0.09	1,181
405	3,909	4,000	3,124	28.0	1.02	1,389
406	15,123	3,879	3,141	23.5	0.26	1,240
407	23,518	4,855	3,660	32.7	0.21	1,523
407.99 3/	...	-	50	-100.0	...	-
408	77,347	3,111	3,173	-2.0	0.04	947
409	56,712	5,256	4,159	26.4	0.09	1,543
Niihau, Lehua and Kaula	45,056	226	237	-4.6	0.01	41
410	45,056	226	237	-4.6	0.01	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Area of census tracts fails to add to county total and subtotals because of rounding.

3/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Kewalo Basin, adjacent to tract 38, are assigned to tract 38.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and unpublished acreage data for counties and islands supplied May 5, 1983; Honolulu Department of General Planning, unpublished estimates of census tract acreage, June 1981. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 10.-- RESIDENT POPULATION OF URBANIZED AREAS, OTHER URBAN PLACES, AND RURAL TERRITORY: 1960 TO 1980

Kind of area	1980	1970	1960
State total	964,691	769,913	632,772
Honolulu Urbanized Area 1/	582,463	443,749	351,336
Honolulu	365,048	324,871	294,194
Rest of urbanized area	217,415	118,878	57,142
Kailua-Kaneohe Urbanized Area 2/	105,712	...	...
Kailua 3/	35,812	33,783	24,402
Kaneohe 3/	29,919	26,998	15,291
Rest of urbanized area	39,981	...	...
Other urban places	146,417	138,692	92,932
Rural territory	130,099	126,691	148,811

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu in 1960, Waipahu and Ewa Beach in 1970 and 1980, and also out to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ The 1970 totals for Kailua and Kaneohe have been adjusted to the 1980 boundaries. The 1960 totals for these places have been adjusted to the original 1970 boundaries.

Source: U.S. Census of Population: 1960, PC(1)-13A, tables 1, 8, and 10, and unpublished data for enumeration districts; U.S. Census of Population: 1970, PC(1)-A13, tables 1, 6, and 11, and correction note, and unpublished data for enumeration districts; U.S. Census of Population: 1980, PC80-1-A13, tables 7 and 13. The 1970 data recapitulated in the 1980 census bulletin have been corrected by DPED.

Table 11.-- POPULATION BY AGE AND SEX: 1980

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
Under 1 year	17,229	8,856	8,373	13,384	3,845
1 year	15,650	8,173	7,477	11,978	3,672
2 years	15,270	7,871	7,399	11,747	3,523
3 years	15,079	7,675	7,404	11,731	3,348
4 years	14,620	7,429	7,191	11,314	3,306
5 to 9 years	73,057	37,555	35,502	56,771	16,286
5 years	14,237	7,378	6,859	10,984	3,253
6 years	14,056	7,068	6,988	10,996	3,060
7 years	14,329	7,370	6,959	11,118	3,211
8 years	14,650	7,579	7,071	11,421	3,229
9 years	15,785	8,160	7,625	12,252	3,533
10 to 14 years	74,870	38,459	36,411	58,528	16,342
10 years	15,874	8,236	7,638	12,450	3,424
11 years	14,513	7,436	7,077	11,374	3,139
12 years	14,334	7,382	6,952	11,169	3,165
13 years	14,718	7,573	7,145	11,535	3,183
14 years	15,431	7,832	7,599	12,000	3,431
15 to 19 years	86,446	45,673	40,773	69,715	16,731
15 years	16,251	8,368	7,883	12,754	3,497
16 years	16,606	8,524	8,082	13,080	3,526
17 years	16,951	8,606	8,345	13,276	3,675
18 years	17,033	9,246	7,787	14,004	3,029
19 years	19,605	10,929	8,676	16,601	3,004
20 to 24 years	105,682	59,070	46,612	89,371	16,311
20 years	21,909	12,870	9,039	18,905	3,004
21 years	21,796	12,814	8,982	18,816	2,980
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553

Continued on next page.

Table 11.-- POPULATION BY AGE AND SEX: 1980 -- Con.

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 19.

Table 12.-- RESIDENT POPULATION, BY AGE: 1980 AND 1982

Age	April 1, 1980 1/ (1,000)	July 1, 1982 2/ (1,000)	Percent distribution		Percent change, 1980-1982
			1980	1982	
All ages	965	994	100.0	100.0	3.0
Under 5 years	78	84	8.1	8.5	8.1
5 to 17 years	198	194	20.5	19.5	-2.0
18 to 44 years	433	450	44.9	45.3	3.9
45 to 64 years	180	181	18.6	18.2	0.6
65 years and over	76	85	7.9	8.5	11.4
14 years and over	754	777	78.1	78.2	3.0
18 years and over	689	716	71.4	72.0	3.9
21 years and over	631	659	65.4	66.3	4.4

1/ Census.

2/ Provisional.

Source: U.S. Bureau of the Census, "Estimates of the Population of States, by Age: July 1, 1981, and 1982," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 930, April 1983.

Table 13.-- AGE, SEX AND MILITARY STATUS: 1982

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 16,309 persons.]

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages ..	956,118	33,123	5,090	20,409	40,225	425,870	431,401
Under 5	80,054	-	-	8,372	6,723	32,804	32,155
5 to 9	75,024	-	-	5,160	4,614	33,452	31,798
10 to 14	76,940	-	-	3,983	2,978	35,538	34,441
15 to 19	82,793	1,001	249	1,333	2,128	40,050	38,033
20 to 24	88,947	9,807	2,162	772	5,541	32,591	38,074
25 to 29	94,774	7,657	2,095	327	7,012	39,544	38,137
30 to 34	85,149	7,445	543	77	5,009	35,360	36,714
35 to 39	64,417	4,410	-	13	3,270	28,765	27,960
40 to 44	48,342	1,532	40	99	1,328	21,784	23,558
45 to 49	44,780	1,142	-	-	855	19,973	22,810
50 to 54	50,959	-	-	-	171	24,005	26,782
55 to 59	48,166	36	-	273	89	23,382	24,386
60 to 64	38,278	93	-	-	221	18,847	19,117
65 to 69	29,989	-	-	-	-	15,460	14,529
70 to 74	20,168	-	-	-	143	11,284	8,740
75 and over	27,340	-	-	-	142	13,032	14,167
Under 18 1/	280,945	-	-	18,315	15,592	125,824	121,214
18 to 64 1/	597,676	33,123	5,090	2,094	24,348	260,270	272,751
65 and over	77,497	-	-	-	285	39,776	37,436
Median (years) .	28.9	28.8	25.3	6.8	23.3	29.9	30.4

1/ Interpolated from data by 5-year age groups.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 14.-- STATISTICAL SUMMARY FOR PERSONS 100 YEARS OF AGE AND OLDER, BY SEX: 1974-1981

Subject	Both sexes	Male	Female
Population 100 and over, 1980	113	51	62
100 to 104 years	75	33	42
105 to 109 years	23	11	12
110 years and over	15	7	8
Centenarian Social Security beneficiaries in force, 1981	60	34	26
Oldest (years)	105	105	(NA)
Centenarian deaths, 1975-1981	94	33	61
Oldest (years)	109	109	109
Oldest recorded (years)	124±	120±	124±
Year of death	1898	1898	1898

NA Not available.

Source: Hawaii State Departments of Health and Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982).

Table 15.-- RURAL FARM POPULATION: 1960 TO 1980

Year	Persons	Percent of state total
1960 1/	10,936	1.7
1970	8,037	1.0
1980	4,523	0.5

1/ Earliest year available.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, PC(1)-13C (1962), table 37; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 48; and 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 56.

Table 16.-- ETHNIC STOCK BY MILITARY STATUS: 1982

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 16,309 persons.]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	956,118	100.0	38,313	60,534	857,271
Unmixed	681,220	71.2	34,414	49,459	597,347
Caucasian	244,236	25.5	27,186	33,215	183,835
Japanese	213,371	22.3	639	1,823	210,909
Chinese	42,555	4.5	77	243	42,235
Filipino	113,217	11.8	1,810	6,283	105,124
Hawaiian	8,291	0.9	-	-	8,291
Korean	17,460	1.8	326	1,310	15,823
Black or Negro	9,897	1.0	3,577	4,343	1,977
Puerto Rican	6,891	0.7	388	368	6,134
Samoan	12,556	1.3	119	835	11,602
Other unmixed or unknown ..	12,745	1.3	291	1,038	11,416
Mixed	274,898	28.8	3,899	11,075	259,924
Part Hawaiian	174,579	18.3	1,343	1,928	171,308
Non Hawaiian	100,319	10.5	2,556	9,147	88,616

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 17.-- ETHNIC STOCK, BY COUNTIES: 1982

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 16,309 persons.]

Ethnic stock	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	956,118	740,382	96,382	40,393	78,961
Unmixed	681,220	537,973	62,695	28,040	52,511
Caucasian	244,236	190,988	26,813	6,796	19,639
Japanese	213,371	160,267	23,879	10,680	18,546
Chinese	42,555	40,328	1,271	260	695
Filipino	113,217	85,709	6,786	9,572	11,150
Hawaiian	8,291	5,159	1,639	408	1,086
Korean	17,460	16,852	501	-	107
Negro or Black	9,897	9,769	42	17	70
Puerto Rican	6,891	4,813	1,397	232	448
Samoan	12,556	12,436	43	-	78
Other unmixed and unknown	12,745	11,653	324	75	693
Mixed	274,898	202,409	33,687	12,353	26,450
Part Hawaiian	174,579	124,064	24,301	8,028	18,186
Non Hawaiian	100,319	78,345	9,386	4,325	8,264

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 18.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	331,925	262,604	32,198	21	11,565	25,537
Black	17,687	17,203	278	-	59	147
American Indian	2,833	2,348	316	-	63	106
Eskimo	74	69	-	-	-	5
Aleut	69	28	17	-	-	24
Japanese	239,734	190,218	24,446	23	9,606	15,441
Chinese	55,916	52,301	1,600	9	587	1,419
Filipino	132,075	96,421	12,746	26	9,944	12,938
Korean	17,453	16,566	522	1	128	236
Asian Indian	708	637	25	-	-	46
Vietnamese	3,403	3,251	139	-	-	13
Hawaiian	118,251	81,868	17,317	59	6,057	12,950
Guamanian	1,630	1,470	49	-	64	47
Samoan	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander	7,140	6,410	490	2	24	214
Race n.e.c.	21,444	17,196	1,691	-	922	1,635
Spanish origin:						
Spanish origin	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

Source: U.S. Bureau of the Census, Census of Population: 1980, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), tables 58 and 59.

Table 19.-- ANCESTRY: 1980

Ancestry group 1/	Persons who reported --		
	At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total 2/	901,210	632,972	268,238
English	96,223	33,262	62,961
German	82,982	22,181	60,801
Irish	68,041	12,845	55,196
Portuguese	57,541	26,447	31,094
Afro-American	15,612	13,200	2,412
Chinese	91,305	45,062	46,243
Filipino	139,621	105,973	33,648
Japanese	246,000	214,964	31,036
Korean	20,854	15,091	5,763
Puerto Rican	14,997	7,082	7,915
Hawaiian 3/	136,341	61,226	75,115

1/ Shown separately for all groups over 50,000, and also for a few smaller groups of special interest.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, 1980 Census of Population, Ancestry of the Population by State: 1980, Supplementary Report PC80-S1-10 (April 1983).

Table 20.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
NATIVITY AND PLACE OF BIRTH				
Total persons	964,691	768,559	762,565	202,126
Native 1/	827,675	692,964	649,354	178,321
Born in Hawaii	557,990	455,060	420,120	137,870
Born in different State	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. 2/	20,933	17,286	19,333	1,600
Foreign born	137,016	75,595	113,211	23,805
Europe and U.S.S.R.	9,100	5,595	7,457	1,643
China	6,112	4,663	5,875	237
Japan	22,265	19,685	18,718	3,547
Korea	9,060	2,063	8,774	286
Philippines	58,510	33,175	43,880	14,630
Vietnam	3,606	8,208	3,531	75
All other countries	22,267		19,719	2,548
Country not reported	6,096	2,206	5,257	839
CITIZENSHIP 3/				
Foreign born	137,016	73,578	113,211	23,805
Naturalized citizen	62,287	30,566	51,314	10,973
Not a citizen	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 63, and 118; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), tables 141 and 144.

Table 21.-- PLACE OF BIRTH BY MILITARY STATUS: 1982

[Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 16,309 persons.]

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	956,118	38,313	60,534	857,271
Native born	811,385	35,189	50,012	726,186
Hawaii	586,661	2,457	11,698	572,507
Mainland U.S.	214,201	31,692	36,994	145,515
American Samoa	6,268	119	282	5,868
Other terr. or poss.	4,255	921	1,038	2,296
Foreign born	140,451	2,716	10,523	127,212
China 1/	8,515	-	158	8,357
Indo-China 2/	5,339	-	393	4,946
Japan	25,759	189	1,208	24,362
Korea	12,142	326	1,515	10,301
Philippines	64,806	1,717	4,251	58,838
Other foreign	23,890	484	2,998	20,408
Not reported	4,282	408	-	3,874

1/ Includes Taiwan.
2/ Cambodia, Laos, or Vietnam.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 22.-- LENGTH OF RESIDENCE IN HAWAII BY MILITARY STATUS: 1982

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 16,309 persons.]

Length of residence in Hawaii	All groups	Armed forces	Military dependents	Other civilians
All periods	956,118	38,313	60,534	857,271
Less than 1 year	51,562	5,742	11,670	34,151
1 to 4 years	174,918	25,420	37,960	111,538
5 to 9 years	122,826	3,098	6,238	113,491
10 to 19 years	192,582	1,820	2,126	188,636
20 years or more	405,382	1,956	2,242	401,183
Not reported	8,849	276	299	8,274
Median years	16.5	3.1	2.9	18.8

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 23.--CITIZENSHIP, BY AGE AND LENGTH OF RESIDENCE IN HAWAII: 1982

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 16,309 persons.]

Age and length of residence in Hawaii	All categories	U.S. citizens			U.S. nationals 1/	Aliens	Status not reported
		Native born	Naturalized	Not spec.			
Total	956,118	820,545	55,064	757	4,402	66,594	8,757
Age:							
Under 6 years	96,214	93,928	-	-	600	1,444	243
6 to 16 years	171,306	154,382	2,825	66	1,488	11,824	721
17 to 24 years	136,238	119,976	4,795	45	588	9,996	839
25 to 44 years	292,681	245,430	20,827	241	1,237	21,790	3,156
45 to 64 years	182,182	151,399	15,152	232	254	12,402	2,743
65 years and over ...	77,497	55,431	11,465	173	235	9,138	1,055
Median age 2/ (years)	30.1	28.4	44.1	...	18.5	34.2	41.3
Years lived in Hawaii:							
Less than 1 year	51,562	44,896	1,189	-	976	4,374	128
1 to 4 years	174,918	143,195	4,345	136	1,052	24,535	1,654
5 to 9 years	122,826	95,037	9,239	130	892	15,872	1,657
10 to 19 years	192,582	158,421	19,322	238	1,441	11,915	1,245
20 years or more	405,382	374,679	19,971	172	40	8,832	1,688
Not reported	8,848	4,317	999	81	-	1,066	2,385
Median 2/ (years) ...	16.5	17.9	16.3	...	6.0	6.2	9.2

1/ From American Samoa.
2/ Median not shown where base (unexpanded) is less than 50.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 24.-- LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH: 1980

Age group, language spoken at home, and ability to speak English	State total	Oahu	Other islands
Persons 5 years and over	887,707	703,058	184,649
Speak only English at home	658,752	519,247	139,505
Speak a language other than English at home	228,955	183,811	45,144
Speak English very well	110,338	88,522	21,816
Speak English well	74,946	59,975	14,971
Speak English not well or not at all	43,671	35,314	8,357
5 to 13 years	2,909	2,586	323
14 to 17 years	1,196	1,068	128
18 to 24 years	2,672	2,344	328
25 years and over	36,894	29,316	7,578
Persons 5 to 17 years	198,167	154,617	43,550
English only	168,692	129,703	38,989
Chinese	2,637	2,574	63
Philippine languages	10,363	7,693	2,670
Other or unspecified language	16,475	14,647	1,828
Persons 18 years and over	689,540	548,441	141,099
English only	490,060	389,544	100,516
Chinese	17,429	16,751	678
Philippine languages	56,292	41,484	14,808
Other or unspecified language	125,759	100,662	25,097

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 63.

Table 25.-- ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM BY STATUS AND NATIONALITY: 1970, 1979, AND 1980

[Data not available after 1980. The 1981 registration data were never tabulated, and the law requiring aliens to report their addresses annually was repealed on December 29, 1981.]

Status and nationality	1970	1979	1980
Total aliens	53,003	69,622	73,018
Status:			
Permanent residents	48,164	62,922	63,045
Other than permanent 1/	4,839	6,700	9,973
Nationality: 2/			
Australia	274	418	464
Canada	1,568	1,861	2,064
China 3/	2,213	3,485	2,127
Germany	691	687	686
Japan	15,351	13,090	13,029
Korea	1,138	6,123	6,527
Laos	23	602	973
Philippines	26,311	33,163	34,597
Samoa, Western	265	651	573
Taiwan 3/	...	437	932
Thailand	168	601	638
United Kingdom 4/	1,548	1,939	2,546
Vietnam	99	1,732	2,649
Other nationalities	3,048	4,070	4,369
Stateless	20	44	291
Unknown	286	719	553
Aliens as percent of resident population 5/	6.9	7.4	7.6

1/ Includes commuter workers (95 in 1980), visitors (816), crewmen (107), students (1,819), exchange aliens (507), refugees (2,351), and others (4,278).

2/ Shown separately for nationalities over 400 in 1980.

3/ Taiwan included with China before 1979.

4/ Including Hong Kong.

5/ Based on April 1 population data (1979 estimated).

Source: U.S. Department of Justice, Immigration and Naturalization Service, records.

Table 26.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS						
Total	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 ...	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household	3.15	3.15	3.09	1.46	3.22	3.11

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 14.

Table 27.-- CHARACTERISTICS OF THE POPULATION, BY CONGRESSIONAL DISTRICTS: 1980

[Based on Congressional districts established for the 98th Congress, elected in November 1982.]

Subject	The State	District 1	District 2
Population	964,691	482,344	482,347
Percent increase, 1970 to 1980	25.3	15.2	37.4
Land area in square miles	6,425	179	6,247
Persons per square mile	150.1	2,694.7	77.2
Median age (years)	28.4	30.2	26.5
Voting-age persons	689,108	362,790	326,318
Male	353,167	182,654	170,513
Female	335,941	180,136	155,805
White	237,332	111,463	125,869
Black	12,871	5,077	7,794
Asian and Pacific Islander	412,696	233,891	178,805
American Indian, Eskimo, Aleut	1,954	806	1,148
Households	294,052	156,186	137,866
Persons per household	3.15	2.95	3.37

Source: U.S. Bureau of the Census, Census of Population and Housing: 1980, Congressional Districts of the 98th Congress, Hawaii, PHC80-4-13 (March 1983), table 1.

Table 28.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons	964,691	762,565	202,126
In households	925,092	725,865	199,227
Householder	294,052	230,214	63,838
Family householder: Male	190,426	148,549	41,877
Female	35,609	28,367	7,242
Nonfamily householder: Male	37,333	28,632	8,701
Female	30,684	24,666	6,018
Spouse	185,698	145,333	40,365
Child	330,281	260,999	69,282
Brother or sister	11,115	8,989	2,126
Parent	11,493	9,231	2,262
Other relative	50,361	38,890	11,471
Nonrelatives	42,092	32,209	9,883
In group quarters	39,599	36,700	2,899
Inmate of institution	5,785	4,565	1,220
Other	33,814	32,135	1,679
Persons 75 years and over living alone	5,075	3,560	1,515
Persons per household	3.15	3.15	3.12
Persons per family	3.61	3.62	3.56
Persons under 18 years	275,583	214,563	61,020
Householder or spouse	387	295	92
Own child	243,671	190,289	53,382
In married-couple family	204,455	159,866	44,589
With female householder, no husband present	32,392	25,584	6,858
With male householder, no wife present	6,824	4,889	1,935
Other relatives	25,918	19,832	6,086
Nonrelatives	3,985	2,941	1,044
Inmate of institution	387	349	38
Other, in group quarters	1,235	857	378
Persons 65 years and over	76,150	55,368	20,782
Family householder: Male	25,453	17,831	7,622
Female	3,959	3,024	935
Spouse	13,763	9,755	4,008
Other relatives	14,015	10,945	3,070
Nonrelatives	1,887	1,396	491
Nonfamily householder: Male	4,670	3,046	1,624
Female	8,705	6,548	2,157
Inmate of institution	2,961	2,116	845
Other, in group quarters	737	707	30

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 21.

Table 29.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 30.-- MARITAL STATUS, BY SEX: 1980

Marital status	Male	Female
Persons 15 years and over	378,665	360,251
Single	137,448	94,160
Now married, except separated	208,968	204,446
15 to 24 years	14,245	20,190
25 to 34 years	52,447	57,853
35 to 44 years	43,177	41,992
45 to 64 years	71,007	68,766
65 years and over	28,092	15,645
Separated	4,354	5,639
Widowed	7,198	29,220
Divorced	20,697	26,786

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 31.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982

Denomination 1/	Churches	Clergy	Members
Buddhist:			
Honpa Hongwanji	36	40	21,500
Kegonshu Todaiji 2/	1	2	30,000
Others 3/	52+	68+	14,030+
Christian:			
Greek Orthodox (Eastern) 4/	1	1	200
Protestant:			
Assembly of God	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	(5/)	31,027
Episcopal	40	85	10,541
Jehovah Witnesses	59	59	4,730
Lutheran	21	25	4,604
Seventh-day Adventists	21	29	4,147
Southern Baptist	60	65	11,340
United Church of Christ	113	129	17,485
United Methodist Church	31	44	6,242
Other Protestant 6/	100+	249+	10,647+
Roman Catholic	64	168	209,000
Other Christian 7/	3+	4+	3,255+
Indian or Hindu derivation 8/	23+	28+	1,880+
Jewish 4/, 9/	1+	2+	442
Muslim	1	-	500
New religious movements (primarily Japanese):			
Tenrikyo	72	300	4,500
Others 10/	20+	28+	7,785+
Shinto:			
Daijingu Temple of Hawaii 2/	(NA)	(NA)	7,500
Kotohira Jinsha Mission 2/	(NA)	(NA)	7,500
Others 11/	(NA)	(NA)	(NA)
Other religious faiths 12/	31+	(NA)	6,306+

Footnotes and source on next page.

Table 31.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982 -- Con.

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

4/ Membership figure refers to families rather than individuals.

5/ Lay leaders.

6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.

7/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.

8/ 9 denominations, of which 8 reported data.

9/ 2 denominations, of which 1 reported data.

10/ 6 denominations, of which 5 reported data.

11/ 3 denominations, of which none reported data.

12/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.

Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii (1983).

Table 32.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1983

Period and component	All groups	Armed forces	Civilian population			
			Military depend-ents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 1/						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	36,233	82,868	8,287	43.5
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,001	41,729	4,173	...
Net military separations 2/	-	-1,815	-	+1,815	+181	1.0
Net migration	+76,124	+4,173	-34,068	+106,019	+10,602	55.6
1980 TO 1983 3/						
Net change	58,600	+2,000	+2,200	+54,400	+16,700	100.0
Natural increase	43,400	-200	12,000	31,600	9,700	58.2
Live births	59,900	-	12,300	47,600	14,600	...
Deaths	16,400	200	300	15,900	4,900	...
Net military separations 2/	...	...	...	...	...	...
Net migration	+15,100	+2,200	-9,800	+22,700	+7,000	41.8

1/ April 1, 1970 to March 31, 1980. Revised from Data Book 1982, table 26.

2/ Separations less inductions for armed forces. Included with net migration after 1980.

3/ April 1, 1980 to June 30, 1983. Provisional.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates based on data from the U.S. Bureau of the Census, U.S. armed forces, and Hawaii State Department of Health.

Table 33.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1977 TO 1982

[Totals for 1978 and later years apparently reflect changes in passenger response rates resulting from a redesigned questionnaire introduced in July 1978 and withdrawn in July 1979. It is likely that the number of intended residents arriving during these years was significantly higher than the totals shown here.]

Calendar year	Number arriving, by military status			
	Total	Military personnel	Military dependents	Other civilians
1977	43,617	12,361	12,771	18,485
1978	39,476	12,294	11,783	15,399
1979	22,559	5,283	4,699	12,577
1980	13,922	5,559	5,097	3,266
1981	18,134	6,981	7,694	3,459
1982	21,068	8,018	9,741	3,309

Calendar year	Persons per party	High status 1/ (percent)	Median age (years)	From West Coast 2/ (percent)
1977	1.64	70.2	24.0	30.1
1978	1.63	70.3	24.4	29.9
1979	1.58	68.7	25.7	37.6
1980	1.70	72.8	23.9	22.5
1981	1.83	71.6	24.1	23.0
1982	1.90	71.0	(NA)	(NA)

NA Not available.

1/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

2/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1981 (Statistical Report 154, May 14, 1982), tables 1 and 2, and records.

Table 34.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1973 TO 1983

[For years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the U.S., reporting Hawaii as their State of intended permanent residence.]

Year	Total 1/	Canada	China and Taiwan	Japan	Korea	Philippines	Vietnam 1/	Other countries
Final data:								
1973	6,881	64	455	544	1,305	3,179	1,334	
1974	6,549	64	429	464	1,127	3,418	1,047	
1975	7,012	87	555	587	1,476	2,913	196	1,198
1976	7,789	110	631	556	1,515	3,222	341	1,414
1976, July-Sept. .	1,882	45	153	(OC)	278	859	(OC)	547
1977	7,825	175	527	495	1,488	3,568	137	1,435
1978	9,053	223	409	394	965	4,398	1,136	1,528
1979	8,944	135	586	365	1,192	5,016	286	1,364
Provisional data: 2/								
1979	6,882	4	474	135	1,244	4,435	590	
1980	5,682	-	495	149	1,150	3,623	265	
1981	6,422	-	477	152	1,106	4,350	337	
1982	6,890	-	572	88	1,041	4,839	350	
1983	5,238	-	568	108	761	3,503	298	

Footnotes and source on next page.

Table 34.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1973 TO 1983 -- Con.

OC Included with "other countries."

1/ Data exclude Vietnamese refugees still in parole status at the end of each reporting period. Such persons are counted when adjusted under the Immigration and Nationality Act.

2/ Data limited to immigrants entering the United States through Honolulu. Data include conditional entrants and persons admitted under Sec. 319(b), 332(a), and 323(c) but exclude immigrants admitted through other ports and subsequent adjustments to immigrant status. Between 1972 and 1979, final totals have exceeded provisional figures by 30.0-54.2 percent. For calendar year provisional data back to 1972, see DPED Statistical Memorandum 83-2, "Migration to Hawaii During 1982" (February 4, 1983), table 2.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1973-1977, and records.

Table 35.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1970 TO 1980

[Years ended June 30 through 1976, 3-month period ended September 30, 1976, and years ended September 30, 1977 and later.]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1970	2,658	110	199	902	110	1,337
1971	2,135	114	221	853	70	877
1972	2,389	230	236	1,096	64	763
1973	2,099	226	260	944	72	597
1974	2,833	238	310	1,505	78	702
1975	3,094	268	537	1,530	97	662
1976	3,130	278	649	1,462	107	634
1976, 3 mo. ..	1,118	97	161	593	53	214
1977	4,532	373	699	2,479	135	846
1978	3,672	289	611	2,055	85	632
1979	4,384	500	771	2,251	101	761
1980	3,473	278	606	1,992	80	517

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977 and records.

Table 36.-- RESIDENCE FIVE YEARS EARLIER, FOR PERSONS FIVE YEARS OLD AND OVER: 1950 TO 1980

Place of residence 5 years prior to census date 1/	1950	1960	1970	1980
Hawaii residents on census date, 5 years old and over	435,135	551,781	697,840	888,056
Same house as census date	202,100	240,895	320,579	438,009
Different house, same county 2/ ...	141,020	175,971	161,800	223,395
Different county, same state 2/ ...	22,320	15,281	13,347	24,478
Different state in U.S.	61,320	94,768	125,732	149,919
Abroad		19,402	33,518	52,255
Moved, residence not reported	8,375	5,464	42,864	-
Mainland residents on census date, Hawaii residents 5 years earlier	(3/)	84,740	112,443	173,741
Net interstate migration	(3/)	+10,028	+13,289	-23,822

1/ Statistics for 1950 refer to place of residence on August 14, 1945 (V-J Day), approximately 4.6 years prior to the census date.

2/ Islands rather than counties were specified in the 1950 census.

3/ Mobility data for Mainland residents in 1950 referred to place of residence as of April 1, 1949, one year prior to the census date. Persons who were Hawaii residents in 1949 and Mainland residents in 1950 numbered 26,460. Net migration cannot be calculated from these data.

Source: U.S. Census of Population: 1950, Bulletin P-B52, table 17, and Advance Reports, Series PC-14, No. 17, table 12; U. S. Census of Population: 1960, Final Report PC(1)-C13, table 42, and Final Report PC(2)-2B, table 16; U. S Census of Population: 1970, Final Report PC(2)-2E, tables 1 and 4; U. S. Census of Population: 1980, Supplementary Report PC80-S1-9, "State of Residence in 1975 by State of Residence in 1980" (March 1983), tables 1 and 2.

Table 37.-- RESIDENCE IN 1975, BY COUNTIES: 1980

Residence in 1975	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Persons 5 years and over ..	888,056	83,849	702,882	144	35,844	65,337
Same house	438,009	44,346	339,003	125	20,542	33,993
Different house in United States	397,792	36,915	317,453	19	14,454	28,951
Same county	223,395	20,848	179,184	5	8,516	14,842
Different county	174,397	16,067	138,269	14	5,938	14,109
Same state	24,478	6,797	9,100	8	2,780	5,793
Different state	149,919	9,270	129,169	6	3,158	8,316
Abroad	52,255	2,588	46,426	-	848	2,393

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Estimates of Social Economic, and Housing characteristics, PHC80-S2-13 (September 1982), table P-22

Table 38.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1971 TO 1982

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks.]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1971	63,452	51,693	11,759	8.3	6.8	1.5
1972	51,818	41,043	10,775	6.6	5.2	1.4
1973	52,267	43,608	8,659	6.4	5.4	1.0
1974	43,233	34,007	9,226	5.3	4.2	1.1
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
1981	44,529	34,754	9,775	4.9	3.8	1.1
1982	46,342	38,683	7,659	4.8	4.0	0.8
Civilian: 3/						
1971	30,103	22,333	7,770	4.6	3.4	1.2
1972	22,902	16,948	5,954	3.3	2.5	0.8
1973	21,682	16,762	4,920	3.1	2.4	0.7
1974	19,740	13,402	6,338	2.7	1.8	0.9
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6
1981	23,756	16,272	7,484	2.9	2.0	0.9
1982	25,460	20,762	4,698	3.0	2.4	0.5

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 39.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1981 AND 1982

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 14,485 persons in 1981 and 16,075 persons in 1982.]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1981				
Population 1 and over	921,744	36,051	54,926	830,767
Same house	778,775	21,109	37,731	719,936
Different house, same island	86,481	7,400	3,743	75,338
Different island	6,707	-	34	6,673
Different state	34,754	6,528	11,955	16,272
U.S. territory or possession	131	-	95	36
Different country	9,644	1,015	1,181	7,448
Previous residence not reported .	5,252	-	187	5,065
Migrants 1/	44,529	7,543	13,231	23,756
Percent of number reporting ...	4.9	20.9	24.2	2.9
1982				
Population 1 and over	941,425	38,212	57,593	845,620
Same house	788,407	21,570	41,291	725,546
Different house, same island	96,110	7,631	3,449	85,029
Different island	5,232	36	-	5,196
Different state	38,683	6,983	10,937	20,762
U.S. territory or possession	979	204	-	774
Different country	6,680	1,082	1,675	3,924
Previous residence not reported .	5,335	706	241	4,388
Migrants 1/	46,342	8,269	12,612	25,460
Percent of number reporting ...	5.0	22.0	22.0	3.0

1/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 40.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1982

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau.]

Military status and year surveyed	Cumulative number			Cumulative percent 1/		
	Some possibility 2/	Good chance 3/	Almost certain	Some possibility 2/	Good chance 3/	Almost certain
Total:						
1980	55,989	35,521	30,740	6.1	3.9	3.3
1981	55,159	39,431	34,857	5.9	4.2	3.7
1982	56,298	40,169	32,190	5.9	4.2	3.4
Civilian: 4/						
1980	32,216	15,375	12,102	3.9	1.9	1.5
1981	26,388	14,265	11,614	3.1	1.7	1.4
1982	31,664	17,467	13,087	3.7	2.0	1.5

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ Excluding members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program.

Table 41.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1981 AND 1982

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 15,100 persons in 1981 and 16,309 persons in 1982.]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1981				
Total	938,621	36,051	58,213	844,357
Almost certain to be living in Hawaii	877,381	25,857	39,549	811,975
Some possibility of living elsewhere	15,728	1,411	2,194	12,123
A good chance of living elsewhere	4,574	669	1,255	2,651
Almost certain to be living elsewhere	34,857	8,028	15,215	11,614
Not reported	6,081	87	-	5,995
1982				
Total	956,118	38,313	60,534	857,271
Almost certain to be living in Hawaii	894,796	29,025	44,709	821,062
Some possibility of living elsewhere	16,130	894	1,039	14,197
A good chance of living elsewhere	7,979	1,058	2,541	4,380
Almost certain to be living elsewhere	32,190	6,857	12,246	13,087
Not reported	5,024	479	-	4,545

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1980 was 75.04 years for males and 81.45 years for females. The crude death rate in 1982 was only 5.5 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 8.9 in 1982. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1982 crude birth rate was 18.9 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,903 in 1980. Over 98 percent of all babies were born in hospitals in 1982, and more than one-fifth were born to military couples. One out of six births was illegitimate. There were 8,278 fetal deaths in 1981, including 6,617 elective abortions. Marriages numbered 13,483 in 1982, with about 25 percent accounted for by nonresidents. Divorces reached a 1982 total of 4,233. The State had 25 acute care civilian hospitals (with 2,925 beds), 34 long-term care facilities (with 2,670 beds), nine specialty care facilities (with 893 beds) and 292 care homes (with 1,555 beds) in 1981. There were 1,862 physicians and surgeons, 724 dentists, 6,478 professional nurses, and 411 pharmacists licensed and living in Hawaii as of January 1983. Acute conditions per 100 persons numbered 224 in 1982, with respiratory conditions the most common complaint (at 156 cases per 100 persons). Among chronic conditions reported in the 1982 survey data, the most frequently mentioned were hypertension without heart involvement (7.1 per 100 persons), hay fever (4.8), and impairments of the back or spine (4.7). The most common communicable disease reported to authorities in 1981 was scarlet fever, with 4,348 cases. State mental health facilities served 10,689 patients in 1981, but the number of in-patients at the end of the year was only 408. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1982-83 contain similar data for the nation as a whole.

Table 42.-- BIRTHS AND DEATHS: 1970 TO 1982

[Place of occurrence basis.]

			Rates per 1,000 resident population		Rates per 1,000 live births		
Calendar year	Births	Deaths 1/	Births	Deaths 1/	Illegitimate births	Fetal deaths 2/	Infant deaths 3/
1970 ...	16,467	4,197	21.2	5.4	95.8	20.6	19.1
1971 ...	15,845	4,351	19.8	5.4	88.4	23.5	16.0
1972 ...	15,413	4,483	18.6	5.4	93.0	22.8	17.5
1973 ...	15,358	4,579	18.0	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	17.9	5.3	108.8	16.3	16.0
1975 ...	15,766	4,572	17.8	5.2	123.2	18.9	13.7
1976 ...	16,409	4,717	18.2	5.2	125.0	20.8	11.2
1977 ...	16,983	4,725	18.5	5.2	143.3	21.6	12.3
1978 ...	16,762	4,860	18.0	5.2	160.1	13.5	12.0
1979 ...	17,568	5,138	18.5	5.4	163.5	13.1	10.9
1980 ...	18,216	5,204	18.8	5.4	175.6	15.3	10.8
1981 ...	18,230	5,269	18.6	5.4	181.8	13.1	10.5
1982 ...	18,735	5,495	18.9	5.5	186.3	12.7	8.9

1/ Includes armed forces.
2/ 20 weeks gestation and over. Includes elective abortions.
3/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R and S Report, No. 5 (June 1974); Statistical Report for 1973-1981; and records.

Table 43.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1982

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1970	16,467	-	16,467	3,828	12,639	3,828
1971	15,845	-	15,845	3,668	12,177	3,668
1972	15,413	-	15,413	3,543	11,870	3,543
1973	15,358	-	15,358	3,739	11,619	3,739
1974	15,528	-	15,528	3,774	11,754	3,774
1975	15,766	-	15,766	3,821	11,945	3,821
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,656	13,106	3,656
1979	17,568	-	17,568	3,797	13,771	3,797
1980	18,216	-	18,216	3,750	14,466	3,750
1981	18,230	-	18,230	3,502	14,728	3,502
1982	18,735	-	18,735	4,007	14,728	4,007
Deaths:						
1970	4,197	72	4,125	139	3,986	211
1971	4,351	47	4,304	150	4,154	197
1972	4,483	50	4,433	160	4,273	210
1973	4,579	70	4,509	169	4,340	239
1974	4,598	49	4,549	165	4,384	214
1975	4,572	83	4,489	153	4,336	236
1976	4,717	67	4,650	161	4,489	228
1977	4,724	76	4,648	157	4,491	233
1978	4,852	80	4,772	147	4,625	227
1979	5,137	85	5,052	155	4,897	240
1980	5,204	69	5,135	154	4,981	223
1981	5,269	73	5,196	155	5,041	228
1982	5,495	74	5,421	161	5,260	235
Birth rate: 1/						
1970	20.5	0	22.0	66.2	18.3	34.5
1971	19.0	0	20.3	59.0	16.9	32.5
1972	17.7	0	18.9	53.5	15.8	30.0
1973	17.1	0	18.2	53.2	15.0	29.1

Continued on next page.

Table 43.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1982 - Con.

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Birth rate — Con.: 1/						
1974	16.8	0	17.9	55.3	14.7	30.0
1975	16.7	0	17.9	60.0	14.6	31.1
1976	16.9	0	18.0	56.8	14.9	30.5
1977	17.2	0	18.2	58.0	15.2	31.0
1978	16.6	0	17.6	59.8	14.7	30.6
1979	16.9	0	17.9	58.9	15.0	31.0
1980	17.3	0	18.3	58.5	15.5	30.7
1981	17.1	0	18.1	54.5	15.6	29.0
1982	17.3	0	18.2	60.1	15.3	33.0
Death rate: 1/						
1970	5.2	1.4	5.5	2.4	5.8	1.9
1971	5.2	0.9	5.5	2.4	5.8	1.7
1972	5.2	1.0	5.4	2.4	5.7	1.8
1973	5.1	1.2	5.4	2.4	5.6	1.9
1974	5.0	0.9	5.3	2.4	5.5	1.7
1975	4.9	1.4	5.1	2.4	5.3	1.9
1976	4.9	1.2	5.1	2.4	5.3	1.8
1977	4.8	1.3	5.0	2.4	5.2	1.9
1978	4.8	1.4	5.0	2.4	5.2	1.9
1979	4.9	1.5	5.1	2.4	5.3	2.0
1980	4.9	1.2	5.1	2.4	5.3	1.8
1981	5.0	1.3	5.2	2.4	5.3	1.9
1982	5.1	1.3	5.3	2.4	5.5	1.9

1/ Per 1,000 de facto population.

Source: Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (Hawaii Economic Research Reports, 1980), table 5; Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents based on an assumed rate of 2.41, as calculated from 1970 data on the age composition of military dependents and age-specific death rates for the total civilian population.

Table 44.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

Type of rate and military status 1/	1960	1970	1980
Crude birth rate, all groups 2/	27.2	21.4	18.8
Civilian	22.9	19.1	16.6
Military	48.8	35.1	33.7
General fertility rate, all groups 3/	127.8	96.1	78.8
Civilian	106.2	84.8	68.5
Military	250.5	169.5	157.2
Total fertility rate, all groups 4/	3,886.5	2,728.5	2,090.5
Civilian	3,360.5	2,461.5	1,903.5
Military	6,480.5	4,275.0	3,789.5
Gross reproduction rate, all groups 5/ ...	1,884.0	1,318.0	1,009.0
Civilian	1,628.0	1,189.5	919.0
Military	3,140.0	2,065.5	1,830.0

Military status and year 1/	Age-specific fertility rates 2/					
	15-19	20-24	25-29	30-34	35-39	40-44
All groups:						
1960	75.4	284.3	221.0	125.1	54.8	15.8
1970	62.5	173.8	169.8	91.7	38.5	8.8
1980	51.1	125.6	122.3	82.9	30.4	5.5
Civilian:						
1960	55.8	229.1	204.3	116.1	52.0	14.8
1970	56.3	151.9	158.0	81.3	36.6	8.2
1980	37.7	100.9	121.7	83.3	31.7	5.1
Military:						
1960	257.9	464.7	297.6	164.6	74.1	37.2
1970	135.1	281.6	227.2	135.3	49.0	26.8
1980	184.3	279.3	172.0	87.3	28.4	6.6

Footnotes and source on next page.

Table 44.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980 -- Con.

1/ Military dependents are included in the military category.

2/ The annual number of live births per 1,000 resident population in the group.

3/ The annual number of live births per 1,000 women of childbearing age.

4/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year age-specific birth rates.

5/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year female age-specific birth rates.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and decennial census data from the U.S. Bureau of the Census.

Table 45.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1971, 1980, AND 1981

[Excludes births to Hawaii residents occurring out of state.]

Subject	1971	1980	1981
Number of resident births	15,780	18,129	18,174
Rate per 1,000 population	20.1	18.6	18.5
Percent on Oahu	82.9	77.7	76.7
Percent attended by M.D. in hospital 1/	99.4	98.5	98.4
Males per 100 females	107.4	107.0	105.8
Median weight of single births (grams) 1/	3,242	3,280	3,283
Percent premature (under 2,500 grams) 1/	7.8	6.4	6.1
Percent single births under 40 weeks gestation	(NA)	50.7	49.7
Percent plural 1/	1.5	1.6	1.7
Percent with 1 or more congenital malformations 1/	1.1	1.0	0.9
Percent illegitimate	8.8	17.6	18.2
Percent with prenatal visit in first three months 1/	62.9	76.5	76.9
Percent first child born to mother 1/	38.4	32.8	33.0
Percent first child born alive to mother	(NA)	42.8	43.2
Median age of mothers (years) 1/	24.9	26.0	26.1
Median age of known fathers (years) 1/	27.9	28.8	28.8

NA Not available.

1/ Data for 1971 are on a place of occurrence basis.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 46.-- BIRTHS, MIXED AND UNMIXED: 1956 TO 1982

[By place of occurrence through 1973 and place of mother's residence thereafter. Based on data for 7 specified races through 1962, 9 for 1963-1977, 11 for 1978-1981, and 18 for 1982.]

Calendar year	Total births	Unmixed births	Mixed births 1/	Not certain 2/	Percent distribution		
					Unmixed	Mixed 1/	Not certain 2/
1956 3/.	17,122	10,844	5,703	575	63.3	33.3	3.4
1957 ...	17,040	10,462	5,977	601	61.4	35.1	3.5
1958 ...	16,710	10,157	5,917	636	60.8	35.4	3.8
1959 ...	17,050	10,144	6,183	723	59.5	36.3	4.2
1960 ...	17,193	10,082	6,379	732	58.6	37.1	4.3
1961 ...	17,558	10,142	6,561	855	57.8	37.4	4.9
1962 ...	17,932	10,085	6,803	1,044	56.2	37.9	5.8
1963 ...	17,744	10,267	6,809	668	57.9	38.4	3.8
1964 ...	17,284	9,923	6,681	680	57.4	38.7	3.9
1965 ...	16,259	9,097	6,467	695	56.0	39.8	4.3
1966 ...	14,943	7,905	6,289	749	52.9	42.1	5.0
1967 ...	14,765	7,850	6,149	766	53.2	41.6	5.2
1968 ...	14,595	7,721	5,927	947	52.9	40.6	6.5
1969 ...	15,690	8,203	6,463	1,024	52.3	41.2	6.5
1970 ...	16,467	8,744	6,799	924	53.1	41.3	5.6
1971 ...	15,845	8,479	6,573	793	53.5	41.5	5.0
1972 ...	15,413	8,195	6,443	775	53.2	41.8	5.0
1973 ...	15,358	7,922	6,559	877	51.6	42.7	5.7
1974 ...	15,472	7,989	6,654	829	51.6	43.0	5.4
1975 ...	15,689	8,007	6,726	956	51.0	42.9	6.1
1976 ...	16,292	8,118	7,199	975	49.8	44.2	6.0
1977 ...	16,874	8,130	7,727	1,017	48.2	45.8	6.0
1978 ...	16,717	7,905	7,732	1,080	47.3	46.3	6.5
1979 ...	17,513	8,081	8,267	1,165	46.1	47.2	6.7
1980 ...	18,129	8,281	8,586	1,262	45.7	47.4	7.0
1981 ...	18,174	7,965	8,914	1,295	43.8	49.0	7.1
1982 ...	18,675	8,570	9,107	998	45.9	48.8	5.3

Footnotes and source follow next table.

Table 47.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1982

[Based on data for 18 specified races.]

Military status of father	Total births	Unmixed	Mixed 1/			Not certain 2/
			Total	Part Haw'n	Not Haw'n	
All groups	18,675	8,570	9,107	5,556	3,551	998
Military	3,998	2,959	1,039	273	766	-
Civilian	12,916	5,611	7,303	4,518	2,785	2
Not reported	1,761	-	765	765	-	996
PERCENT DISTRIBUTION						
All groups	100.0	45.9	48.8	29.8	19.0	5.3
Military	100.0	74.0	26.0	6.8	19.2	0
Civilian	100.0	43.4	56.5	35.0	21.6	0.0
Not reported	100.0	0	43.4	43.4	0	56.6

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other."

3/ Earliest year available.

Source: Hawaii State Department of Health, Statistical Report (annual) and special tabulation of 1982 data.

Table 48.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914, 1950, AND 1982

Sex and rank	1982 1/		1950	1909-1914
	Name	Number		
Boys' names:				
1	Christopher	266	John	John ....
2	Michael	255	Michael	William ......
3	David	198	Robert	George ....
4	Jason	186	William	Antonio ......
5	Justin	160	Dennis	Joseph ....
Girls' names:				
1	Jennifer	222	Linda	Maria ....
2	Jessica	135	Kathleen	Mary ....
3	Nicole	108	Sharon	Amelia ....
4	Crystal	100	Carol	Helen ....
5	Melissa	87	Charlene	Elizabeth ....

1/ A total of 5,293 first names (including variant spellings) was reported for the 18,734 babies born in Hawaii in 1982.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1982 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 49.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1969 AND 1983

Rank	1983		1969: name
	Name	Columns	
1	Lee	19.5	Lee ....
2	Wong	16.5	Wong ....
3	Young	11.5	Chun ....
4	Chang	10.5	Young ....
5	Chun	9.5	Chang ....
6	Smith	8.75	Ching ....
7	Ching	8.5	Nakamura ....
8	Kim	8.33	Smith ....
9	Lum	7.75	Lum ....
10	Nakamura	7.5	Yamamoto; Johnson .

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and January 19, 1983, p. A-3.

Table 50.-- CHARACTERISTICS OF RESIDENT DEATHS: 1971, 1980, AND 1981

[Excludes deaths of Hawaii residents occurring out of state.]

Subject	1971	1980	1981
Number of resident deaths 1/	4,107	4,903	4,927
Rate per 1,000 population 1/	5.6	5.0	5.1
Percent on Oahu 1/	73.1	75.0	74.2
Males per 100 females 1/	154.9	154.4	155.5
Median age (years) 1/, 2/	66.0	69.2	70.0
Number of deaths under 1 year	249	183	178
Per 1,000 live births	15.8	10.1	9.8
Fetal deaths 3/	5,696	6/ 8,112	8,278
Per 1,000 deliveries 3/	265	6/ 309	313
Fetal deaths, 20 or more weeks gestation 3/, 4/	372	6/ 278	238
Per 1,000 live births 4/	23.4	6/ 15.3	13.1
Standard fetal deaths 5/	1,561	1,716	1,661
Elective abortions	4,135	6/ 6,396	6,617
Per 1,000 live births	262	6/ 353	364

1/ Data for 1971 exclude armed forces.
2/ Data for 1971 are on a place of occurrence basis.
3/ Includes elective abortions.
4/ Data are on a place of occurrence basis.
5/ Excludes elective abortions.
6/ Corrected from Data Book 1982, table 38, p. 63.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 51.-- CAUSE OF DEATH: 1961, 1971, AND 1981

[Place of residence basis. Data for 1961 and 1971 exclude armed forces.]

Cause of death 1/	Number, 1981	Percent distribution			Rate per 100,000 resident population		
		1981	1971	1961	1981	1971	1961
All causes	4,927	100.0	100.0	100.0	502.2	583.5	549.6
Diseases of the heart ..	1,611	32.7	34.3	32.3	164.2	200.4	177.6
Malignant neoplasms	1,213	24.6	18.0	16.8	123.6	105.1	92.1
Cerebrovascular diseases	365	7.4	10.0	9.2	37.2	58.6	50.8
All accidents	287	5.8	6.5	5.9	29.3	37.8	32.5
Influenza and pneumonia	156	3.2	4.0	4.8	15.9	23.3	26.1
Diabetes mellitus	127	2.6	2.9	3.0	12.9	16.9	16.3
Suicide	87	1.8	2.3	1.6	8.9	13.2	8.7
Perinatal conditions ...	87	1.8	3.1	7.5	8.9	18.0	41.5
Congenital anomalies ...	80	1.6	1.9	2.3	8.2	11.0	12.7
Cirrhosis of liver	70	1.4	2.1	1.3	7.1	12.2	7.2
Other circulatory diseases	52	1.1	1.1	2.7	5.3	6.5	14.9
Homicide and legal intervention	47	1.0	0.8	0.4	4.8	4.6	2.0
All other causes	759	15.0	13.0	12.2	77.4	75.9	67.2

1/ The leading causes of death in 1981, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1981, p. 23.

Table 52.-- CATASTROPHIC MORTALITY: 1977 TO 1983

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979.]

Date		Place	Kind of disaster	Deaths
1977:	April 13 1/ ...	At sea off Waikiki	Airplane crash	5
1978:	Dec. 9 (?)	At sea off West Hawaii .	Ship disappearance ..	10
1979:	Feb. 11 (?) ...	At sea out of Hana	Boat disappearance ..	5
	Nov. 24	Near Wahiawa	2-car auto crash	5
1980:	May 18	Molokai	Helicopter crash	7
1981:	Dec. 5	Pearl Harbor	Airplane crash	11
1982:	July 24	Near Wahiawa	3-car auto crash	5
1983:	June 16	Honopu, Kauai	Airplane crash	14

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 53.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1971, 1980, AND 1981

Method	1971	1980	1981	Percent distribution		
				1971	1980	1981
All methods	4,350	5,204	5,269	100.0	100.0	100.0
Burial	2,243	2,343	2,284	51.6	45.0	43.3
Cremation	1,618	2,241	2,342	37.2	43.1	44.4
Removal	451	567	613	10.4	10.9	11.6
Entombment	31	44	23	0.7	0.8	0.4
Educational purpose .	5	-	-	0.1	0	0
Other	2	1	-	0.0	0.0	0
Unknown	-	8	7	0	0.2	0.1

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 54.-- SELECTED LIFE TABLE VALUES: 1980

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0 1/	78.02	75.04	81.45	100,000	100,000	100,000
1	77.81	74.90	81.15	99,001	98,870	99,147
5	73.97	71.08	77.27	98,796	98,617	98,997
15	64.12	61.26	67.40	98,579	98,358	98,824
25	54.66	51.99	57.50	97,674	97,095	98,350
35	45.14	42.61	48.00	96,741	95,810	97,791
45	35.81	33.40	38.53	95,125	93,806	96,582
55	27.12	25.05	29.50	91,142	88,554	93,788
65	19.19	17.50	21.11	83,153	78,637	87,879
75	12.23	11.02	13.40	67,037	60,056	75,343
85	7.20	6.54	7.68	39,284	31,099	49,188
95	3.97	3.70	4.12	9,639	5,492	14,464

1/ For the entire United States, expectation of life at birth in 1980 was 73.8 years for males and females combined, 70.0 for males, and 77.7 for females; see U.S. Department of Health and Human Services, National Center for Health Statistics, "Annual Summary of Births, Deaths, Marriages, and Divorces: United States, 1981," NCHS Monthly Vital Statistics Report, Vol. 30, No. 13, December 20, 1982, pp. 3-4.

Source: Robert W. Gardner, Life Tables for Hawaii, 1980 (East-West Population Institute, July 1983).

Table 55.-- ACUTE CONDITIONS: 1982

Condition	Incidence of condition per year	Conditions per 111 persons per year
All acute conditions	2,141,939	224.1
Infective parasitic diseases	147,634	15.4
Respiratory condition	1,494,118	156.3
Upper respiratory	1,112,298	115.9
Influenza	391,113	41.8
Other respiratory condition ...	91,617	9.6
Digestive system condition	31,243	3.3
Injuries	212,739	21.2
All other acute conditions	266,315	27.9

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 56.-- CHRONIC CONDITIONS: 1982

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	22,178	23.2
Impairments of back or spine	44,646	46.7
Hypertension without heart involvement	67,620	70.7
Arthritis/rheumatism	29,312	30.7
Hearing impairment	30,139	31.5
Asthma with or without hayfever	35,441	37.1
Diabetes	18,590	19.4
Mental and nervous condition	16,956	17.7
Visual impairment	12,015	12.6
Malignant neoplasms	6,060	6.3
Chronic and allergic skin conditions ..	28,770	30.1
Chronic sinusitis	27,717	29.0
Hayfever without asthma	45,792	47.9
Stomach ulcer	6,248	6.5
Bronchitis/emphysema	15,459	16.2
Benign and unspecified neoplasms	6,539	6.8
Hemorrhoids	16,969	17.7
Thyroid/goiter	5,450	5.7
Varicose veins	10,948	11.5
Gout	10,072	10.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 57.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1982

Type of limitation	Number
Persons with one or more chronic conditions	352,492
No limitation of activity	289,308
Limited, but not in major activity	27,726
Limited in amount or kind of activity	22,234
Unable to carry on major activity	13,224
Restricted days in past 12 months 1/	12,383,934
Per person 2/	13.0
Bed days in past 12 months	4,272,937
Per person 2/	4.5
Work days lost by persons 17 years of age and older in past 12 months	2,090,050
Per employed person 17 years and older 2/	5.3
School days lost by persons 6 to 16 years of age in past 12 months	609,665
Per pupil 6 to 16 years of age 2/	3.6

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Hawaii Health Surveillance Survey Program, special tabulation.

Table 58.-- SPECIFIED COMMUNICABLE DISEASES: 1971, 1980, AND 1981

Disease	Cases			Deaths		
	1971	1980	1981	1971	1980	1981
All reportable diseases ..	16,171	12,270	11,438	26	30	19
Chickenpox	1,468	926	809	-	-	-
Gonorrhea	1,976	4,383	4,289	-	-	-
Hepatitis, infect. and serum ..	298	232	247	1	8	2
Influenza	3,287	118	96	-	2	1
Leprosy	33	34	49	-	-	2
Measles (Rubeola)	532	6	7	-	-	-
Measles, German (Rubella)	187	5	15	-	-	-
Meningitis, all types	52	195	225	1	6	6
Mumps	937	24	26	-	-	-
Salmonellosis	522	405	513	2	-	-
Scarlet fever, other strep. ...	5,683	5,102	4,348	-	-	-
Syphilis	83	225	141	-	-	-
Tuberculosis	329	127	197	21	14	7
All others	784	488	476	1	-	1

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 59.-- LEPROSY PATIENTS REGISTERED: 1979 TO 1981

Subject	1979	1980	1981
Patients on register, Dec. 31 ..	458	474	506
Medically released	458	474	506
At home	328	349	385
Kalaupapa	124	119	115
Hale Mohalu or Leahi	6	6	6
Not medically released	-	-	-
Net annual increase	21	16	32
New cases added	33	34	49
Cases returned to register ...	2	3	4
Deaths	5	8	6
Left the State	1	4	1
Discharged	8	9	14

Source: Hawaii State Department of Health, Statistical Report, 1981, p. 107.

Table 60.-- PERSONS 12 YEARS OLD AND OVER WHO HAD EVER USED SPECIFIED SUBSTANCES: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	661	93.5	83.4	91.8	96.1
Cigarettes	427	60.5	35.2	63.5	64.9
Alcohol	560	79.2	52.1	87.2	82.8
Marijuana	222	31.4	31.8	55.7	24.7
Over the counter drugs	235	33.2	35.8	35.9	31.9
Sedatives	96	13.5	6.1	21.3	12.9
Stimulants	90	12.8	3.5	17.9	13.3
Tranquilizers	178	25.2	5.8	26.7	28.9
Inhalants	55	7.8	10.9	15.9	4.9
Opiates	232	32.8	19.0	37.9	34.4
Hallucinogens	77	10.8	4.2	25.3	8.3
PCP	38	5.3	3.6	14.2	3.3
Cocaine	89	12.6	5.1	27.1	10.2
Heroin	20	2.8	0.4	5.6	2.6
Stimulants 1/	44	6.3	1.7	12.2	5.6
Sedatives 1/	46	6.6	3.8	16.1	4.5
Tranquilizers 1/	43	6.0	3.4	12.4	4.9
Over the counter 1/	24	3.4	2.5	4.9	3.2
Opiates 1/	24	3.4	1.6	7.9	2.5

Footnote and source follow next table.

Table 61.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	576	81.5	53.9	73.7	89.4
Cigarettes	235	33.3	15.3	40.0	35.2
Alcohol	389	55.1	27.4	68.2	57.3
Marijuana	102	14.4	17.9	30.7	9.2
Over the counter drugs .	45	6.4	10.1	6.7	5.5
Sedatives	21	3.0	0.9	5.1	3.0
Stimulants	14	1.9	0.9	3.0	2.0
Tranquilizers	44	6.2	1.5	5.5	7.0
Inhalants	9	1.2	2.9	1.2	0.8
Opiates	39	5.5	6.1	5.9	5.5
Hallucinogens	10	1.4	1.8	4.2	0.5
PCP	3	0.4	0.8	1.2	0.1
Cocaine	33	4.7	2.5	12.6	3.0
Heroin	2	0.3	0	1.1	0.2
Stimulants 1/	8	1.1	0.7	3.0	0.7
Sedatives 1/	9	1.2	0.5	3.8	0.7
Tranquilizers 1/	8	1.1	0.7	3.1	0.7
Over the counter 1/	6	0.8	0.3	1.3	0.7
Opiates 1/	5	0.7	1.0	1.5	0.4

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Survey on Substance Abuse - 1979. Preliminary Findings (December 1980), tables 7 and 13.

Table 62.-- CHARACTERISTICS OF ACUTE AND LONG TERM CARE HOSPITALS: BY ISLANDS: 1980

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total 1/, 2/	117,404	2,046.6	6.4	70.9
Oahu 2/	93,838	1,763.0	6.9	4/ 76.4
Civilian only 3/ ...	75,875	1,342.2	6.5	4/ 77.1
Hawaii	11,599	121.8	3.8	46.0
Kauai	4,633	65.9	5.2	48.7
Maui	4/ 6,885	4/ 92.7	4/ 4.9	4/ 63.6
Molokai	426	3.1	2.7	20.8
Lanai	23	0.1	2.3	2.5
LONG TERM CARE				
State total 1/ ...	2,653	2,390.9	328.9	90.0
Oahu	1,605	1,591.1	362.8	91.4
Hawaii	567	371.6	239.8	92.9
Kauai	173	114.7	242.7	94.8
Maui	4/ 296	4/ 301.4	4/ 317.7	89.2
Molokai	7	5.6	409.2	46.6
Lanai	5	6.5	342.3	81.8

1/ Estimated by Hawaii State Department of Planning and Economic Development.

2/ Includes Tripler Army Medical Center.

3/ Excludes Tripler.

4/ Estimated by Hawaii State Health Planning and Development Agency.

Source: Hawaii State Department of Health, Statistical Report 1981, pp. 80-83, and Statistical Report, 1980, p. 77.

Table 63.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1981

[Except for Tripler Army Medical Center, data are for facilities regulated and licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health and recognized by the Hawaii State Health Planning and Development Agency.]

Category and island	All facilities	Acute care 1/	Long term care	Specialty care	Care homes	
					Residential 2/	Family 3/
NUMBER OF FACILITIES						
State total ..	360	25	34	9	14	278
Oahu	282	12	21	6	9	234
Hawaii	29	5	6	-	1	17
Kauai	25	3	3	1	3	15
Maui	16	3	2	1	-	10
Molokai	6	1	1	1	1	2
Lanai	2	1	1	-	-	-
NUMBER OF BEDS						
State total ..	8,043	2,925	2,670	893	500	1,055
Oahu	6,276	2,346	1,785	850	412	883
Hawaii	740	265	406	-	13	56
Kauai	397	143	121	11	61	61
Maui	543	150	338	8	-	47
Molokai	73	15	12	24	14	8
Lanai	14	6	8	-	-	-

1/ Includes Tripler Army Medical Center which had a bed capacity of 566.

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1981, pp. 79, 80 and 158.

Table 64.-- HEALTH SERVICES: 1977

Kind of business or operation	All taxable establishments		Taxable establishments with payroll		Tax-exempt establishments with payroll	
	Number	Receipts ($1,000)	Number	Receipts ($1,000)	Number	Expenses ($1,000)
Total	1,797	264,175	1,101	248,561	65	149,107
Offices of physicians	713	145,328	551	139,842	-	-
Offices of dentists	487	61,518	397	58,087	-	-
Offices of osteopathic physicians	10	640	7	546	-	-
Offices of chiropractors	22	1,238	10	903	-	-
Offices of optometrists	59	5,953	41	5,045	-	-
Nursing and personal care facilities	210	15,990	12	13,908	6	6,575
Skilled nursing care facilities	(NT)	(NT)	7	11,484	4	(D)
Nursing and care facilities, n.e.c.	(NT)	(NT)	5	2,424	2	(D)
Hospitals	1	(D)	1	(D)	14	130,447
General medical and surgical	1	(D)	1	(D)	10	110,257
Psychiatric	-	-	-	-	-	-
Specialty, except psychiatric	-	-	-	-	4	20,190
Medical and dental laboratories	74	11,373	43	10,705	-	-
Medical	22	6,921	14	6,667	-	-
Dental	52	4,452	29	4,038	-	-
Other health services	221	(D)	39	(D)	45	12,085
Offices of health practitioners, n.e.c.	(NT)	(NT)	21	1,600	-	-
Outpatient care facilities ..	(NT)	(NT)	11	1,359	34	8,200
Health and allied services, n.e.c.	(NT)	(NT)	7	(D)	11	3,885

D Withheld to avoid disclosing data for individual establishments.

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-8, Health Services (May 1981), tables 1 and 2.

Table 65.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1977 TO 1982

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642
1979 ..	6,392	333	6,059	4,564	4,265	5,057	10,713
1980 ..	6,328	440	5,886	5,112	4,696	4,759	10,625
1981 ..	6,642	408	6,213	4,947	4,474	5,062	10,689
1982 ..	6,287	336	5,951	4,885	4,163	5,155	10,312

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 66.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1978 TO 1983

[Hawaii State Hospital is the only large psychiatric hospital in Hawaii.]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital	
		Total	First	Average 1/	June 30
1978	199	737	350	179	169
1979	199	787	315	184	204
1980	199	816	321	226	239
1981	220	804	322	214	222
1982	220	990	402	226	221
1983	220	1,070	445	239	243

1/ Year ended June 30.
2/ Includes patients on leave and absent without leave.
Source: Hawaii State Hospital, records.

Table 67.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1978 TO 1983

[Waimano Training School and Hospital is the State institution for the mentally retarded.]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1978	600	13	491	482	599
1979	600	13	441	446	613
1980	575	12	437	423	627
1981	575	7	406	397	635
1982	575	6	387	385	621
1983	426	10	365	375	613

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 68.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 13, 1983

Place of residence	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	2,965	958	9,241	665
Hawaii addresses ...	1,862	724	6,478	411
Hawaii	141	56	540	38
Maui	120	38	454	33
Lanai	3	1	12	0
Molokai	6	8	27	3
Oahu	1,521	588	5,186	320
Kauai	71	33	259	17
Niihau	-	-	-	-
Out of State	1,103	234	2,763	254

1/ Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.
Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 69.-- DRUG STORES, PHARMACISTS, AND PRESCRIPTIONS: 1977

[Data are shown only for establishments with payroll.]

Subject	State total	Oahu only
Number of establishments	87	70
Sales ($1,000)	170,717	(D)
Prescriptions, total (1,000)	2,911	2,185
Refills (1,000)	638	473
Pharmacists, total, mid-March	168	138
Part-time, working less than 35 hours per week	36	29
Establishments which filled prescriptions paid for by third parties, total	76	59
Third-party prescriptions less than 15 percent of total prescriptions	17	15
15 to 24 percent	13	11
25 percent or more	46	33

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 22, 23, 24, and 25.

Table 70.-- EXPENDITURES BY CIVILIAN FAMILIES AND INDIVIDUALS FOR HEALTH SERVICES: 1978-1979

[Annual out-of-pocket expenses.]

Service	Percent utilizing service		Average expense 1/ (dollars)		Median expense 1/ (dollars)	
	Families	Unrel. indiv.	Families	Unrel. indiv.	Families	Unrel. indiv.
All health services	...	...	834	437	629	278
Excluding insurance premiums ..	...	...	626	337	404	155
Doctor care	88.9	78.3	233	113	150	75
Hospital care	24.7	12.8	381	646	190	209
Medicine	83.6	69.9	106	74	60	30
Dental care	71.3	45.6	299	196	195	90
Other health services	43.2	29.4	149	130	100	100
Health insurance premiums	...	...	316	179	276	152

1/ For families with expense.

Source: Hawaii State Department of Health, Cost of Medical Care (R and S Report, No. 36, October 1981), pp. 24, 28, 31, 34, 37, 40, 43, 46, and 49.

Table 71.-- PERSONAL HEALTH CARE EXPENDITURES: 1976 TO 1978

[In millions of dollars. Covers all expenditures for health services and supplies, except net cost of insurance and administration, government public health activities, and expenditures of philanthropic agencies for fund raising activities.]

Year and object of expenditure	Amount
1976, total	536
1977, total	619
1978, total	691
Hospital care	258
Physicians' services	204
Dentists' services	72
Drugs and medical sundries	64
Nursing home care	29
All other	64

Source: U. S. Health Care Financing Administration, Health Care Financing Review, December 1982, as cited in Statistical Abstract of the United States: 1982-83, p. 103.

Table 72.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979 as part of the Hawaii Health Surveillance Program.]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-Ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 73.-- MARRIAGES AND DIVORCES: 1970 TO 1982

[Place of occurrence basis.]

Calendar year	Marriages	Divorces and annulments 1/	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces 1/	Nonresident 2/	Interracial
1970 ...	10,599	2,589	13.7	3.3	25.6	33.7
1971 ...	9,734	3,691	12.2	4.6	16.7	38.7
1972 ...	9,750	3,891	11.8	4.7	13.0	38.6
1973 ...	9,776	4,170	11.5	4.9	11.5	40.6
1974 ...	9,649	4,111	11.1	4.7	11.9	40.1
1975 ...	9,673	4,265	10.9	4.8	12.7	39.6
1976 ...	9,769	4,712	10.8	5.2	14.9	38.8
1977 ...	10,266	4,601	11.2	5.0	17.9	37.5
1978 ...	10,736	4,837	11.6	5.2	19.4	37.9
1979 ...	11,678	5,055	12.3	5.3	19.3	38.2
1980 ...	11,856	4,438	12.2	4.6	20.4	37.6
1981 ...	12,218	4,253	12.5	4.3	22.7	36.1
1982 ...	13,483	4,233	13.6	4.3	25.4	35.7

NA Not available.

1/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

2/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R and S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1981 and records.

Table 74.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1971, 1980, AND 1981

[Place of occurrence basis.]

Subject	1971	1980	1981
MARRIAGES			
Number	9,734	11,856	12,218
Percent on Oahu	81.9	73.2	70.9
Percent Hawaii residents:			
Both bride and groom	73.6	75.1	72.5
One partner only	9.6	4.6	4.8
Neither bride nor groom	16.7	20.4	22.7
Median age (years):			
Groom	25.5	28.1	28.3
Bride	23.4	25.8	26.0
Percent previously married:			
Groom	25.9	34.6	35.6
Bride	24.7	34.5	34.8
DIVORCES AND ANNULMENTS			
Number 1/	3,691	4,438	4,253
Divorces	3,659	4,423	4,235
Annulments	32	14	18
Percent occurring on Oahu	85.9	77.7	76.0
Percent nonresident:			
Husband	11.1	3/ 11.6	11.7
Wife	11.7	12.4	12.8
Neither partner	77.2	3/ 76.0	75.6
Median age (years):			
Husband	33.3	33.0	33.2
Wife	29.9	30.4	30.6
Percent interracial 2/	36.1	39.3	40.3
Percent with children under 18 years	68.4	3/ 54.8	54.1
Median years married	7.1	6.0	6.1

1/ Includes unspecified type of decree.

2/ For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

3/ Corrected from Data Book 1982, table 61, p. 81.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 75.-- MARRIAGES, MIXED AND UNMIXED, BY RESIDENCE STATUS OF PARTNERS: 1981

[Data refer to marriages occurring in Hawaii.]

Residence status	Ethnic stock of bride and groom 1/				
	Total	Same	Different	Not reported 2/	Percent different 3/
All marriages	12,218	7,715	4,405	98	36.3
Resident marriages 4/	9,445	5,194	4,157	94	44.5
Nonresident marriages 5/	2,773	2,521	248	4	9.0

1/ Based on the following categories: Caucasian other than Portuguese, Hawaiian, Part Hawaiian, Chinese, Filipino, Japanese, Puerto Rican, Korean, Samoan, Portuguese, Negro or Black, Vietnamese, Other races, and Unknown.

2/ Both partners "other races," or one or both "unknown."

3/ Base excludes "not reported."

4/ One or both partners classified as residents of Hawaii.

5/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 76.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY: 1978 TO 1981

Year and residence status	All marriages	Civil	Religious	Not stated	Percent civil
1978	10,736	3,573	7,160	3	33.3
1979	11,678	4,011	7,664	3	34.3
1980	11,856	4,163	7,693	-	35.1
1981	12,218	4,222	7,995	1	34.6
Residence status: 1981					
Resident marriages 1/	9,445	3,575	5,869	1	37.9
Nonresident marriages 2/ ..	2,773	647	2,126	-	23.3

1/ One or both partners classified as Hawaii residents.

2/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 77.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY AGE AND SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Age in years	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
Total, 18 and over ...	67.5	62.6	159.5	127.9
18 to 24	68.2	63.2	156.2	123.7
25 to 34	68.6	63.3	164.5	127.6
35 to 44	68.2	62.9	169.5	132.1
45 to 54	67.2	62.3	161.8	130.5
55 to 64	66.5	62.0	154.3	128.5
65 and over	65.3	61.1	143.1	123.3
Age not reported	67.3	62.9	163.5	127.8

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 78.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY ETHNIC STOCK AND SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Ethnic stock	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
All groups	67.5	62.6	159.5	127.9
Caucasian	69.9	64.3	170.0	133.2
Japanese	65.7	61.0	146.3	116.5
Chinese	67.0	62.3	148.1	116.5
Filipino	64.7	61.0	143.1	119.1
Hawaiian	68.2	63.9	185.9	161.1
Korean	66.9	62.1	149.6	116.2
Negro or black	70.6	64.4	174.6	135.7
Puerto Rican	67.1	62.3	170.8	142.0
Samoan	68.5	64.5	191.0	170.7
Other unmixed or unknown	68.5	63.2	166.4	131.1
Part Hawaiian	68.6	63.7	178.4	145.7
Mixed, non-Hawaiian	67.6	62.5	159.9	127.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 79.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Height (in inches)	Cumulative percent 1/		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)
Not reported	...	...	158.1	134.0

B Base figure too small to meet statistical standards for reliability of derived figure.

1/ Based on number reporting height.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 80.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward.]

Weight (in pounds)	Cumulative percent 1/		Average height (in inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)
Not reported	...	...	65.9	62.8

B Base figure too small to meet statistical standards for reliability of derived figure.

1/ Based on number reporting weight.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 81.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

Subject	Elementary school		Junior high school		Senior high school	
	Male	Female	Male	Female	Male	Female
Mean daily intake						
Protein (g.)	88	75	104	77	117	74
Vitamin A (R.E.) 1/	1,086	774	924	619	1,115	835
Vitamin C (mg.)	99	94	101	93	156	120
Thiamin (mg.)	1.1	1.0	1.2	1.0	1.5	0.9
Riboflavin (mg.)	2.0	1.7	2.1	1.5	2.6	1.5
Niacin 2/ (mg.)	17	15	20	15	23	14
Calcium (mg.)	943	807	1,063	719	1,200	708
Phosphorus (mg.)	1,337	1,200	1,721	1,206	1,905	1,083
Iron (mg.)	12	10	14	10	15	10
Calories (kcal.)	2,180	1,942	2,654	2,057	3,079	2,028
Breakfast	345		390		356	
Lunch	550		530		529	
Dinner	645		685		732	
Snacks	522		766		1,028	
Sugar (g.)	44	41	61	58	70	57
Cholesterol (mg.)	388	325	466	310	535	297
Fat (g.)	90	82	111	85	128	81
Mean intake as percent of RDA or standard						
Protein	258	221	231	167	209	161
Vitamin A	155	111	92	77	111	104
Vitamin C	220	209	203	186	260	199
Thiamin	95	82	85	90	106	82
Riboflavin	142	120	134	118	151	118
Niacin 2/	108	93	110	97	128	103
Calcium	118	101	89	62	100	59
Phosphorus	167	150	143	100	159	90
Iron	118	104	77	56	83	55
Calories	91	81	98	93	110	97

1/ Retinol Equivalents.

2/ Data exclude the niacin value that could be contributed by tryptophan. Because students in the sample were consuming more than adequate amounts of protein, their niacin levels would be higher than those indicated.

Source: University of Hawaii, Curriculum Research and Development Group, Hawai'i Nutrition Education Needs Assessment, Final Report (May 1980), pp. 19-34.

Table 82.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 83.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1982-1983 totaled 200,129, slightly less than in the preceding year and 7.1 percent below the all-time high reached in 1971-1972. There were 233 public schools with 8,083 classroom teachers and 162,024 students (81.0 percent of the total). There were also 140 private schools with 2,219 teachers and 38,105 pupils. Students graduating from public and private high schools in 1981-1982 numbered 13,948. Some 54,146 students attended colleges and universities in the State in 1982-1983, including 21,065 on the Manoa Campus of the University of Hawaii, 410 at West Oahu College, 3,752 at UH-Hilo, 22,300 at six community colleges, and 6,619 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from $1,007 in 1971-1972 to $2,701 in 1981-1982. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1980 approximately 20.3 percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 47 locations in all four counties, had 3.4 million books, film reels, phonorecords, and other collections in 1981, with an annual circulation of 5.3 million; the University of Hawaii libraries in the same year counted 2.2 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1982-83 presents comparable information for the nation as a whole.

Table 84.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1972-1973 TO 1982-1983

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1972-73 ...	341	222	119	9,984	8,187	1,797
1973-74 ...	345	225	120	9,728	7,780	1,948
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308
1982-83 ...	373	233	140	10,302	8,083	2,219

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1972-73 ...	214,360	181,587	32,773	13,321	11,147	2,174
1973-74 ...	212,012	178,307	33,705	13,612	11,464	2,148
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
1982-83 ...	200,129	162,024	38,105	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied January 20, 1983.

Table 85.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 13, 1982, AND HIGH SCHOOL GRADUATES, 1981-1982, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools.]

Island	Number of schools, September 13, 1982			Number of teachers, September 13, 1982		
	Total	Public	Private	Total	Public	Private
State total	373	233	140	10,302	8,083	2,219
Hawaii	42	30	12	1,095	960	135
Maui	30	20	10	707	575	132
Lanai	1	1	0	28	28	0
Molokai	6	5	1	85	83	2
Oahu	272	163	109	7,922	6,025	1,897
Kauai	21	13	8	462	409	53
Niihau	1	1	0	3	3	0

Island	Pupil membership, September 13, 1982			High school graduates, 1981-1982 school year		
	Total	Public	Private	Total	Public	Private
State total	200,129	162,024	38,105	13,948	11,563	2,385
Hawaii	21,133	19,284	1,849	1,503	1,338	165
Maui	13,829	11,707	2,122	934	823	111
Lanai	469	469	0	51	51	0
Molokai	1,593	1,564	29	110	110	0
Oahu	154,282	121,190	33,092	10,661	8,559	2,102
Kauai	8,789	7,776	1,013	689	682	7
Niihau	34	34	0	0	0	0

Source: Hawaii State Department of Education, data supplied January 20, 1983.

Table 86.-- PRIVATE SCHOOLS, TEACHERS, AND MEMBERSHIP, SEPTEMBER 13, 1982, AND PRIVATE HIGH SCHOOL GRADUATES, 1981-1982, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Membership	High-school graduates
Total	140	2,219	38,105	2,385
Church-affiliated	88	1,248	22,715	1,348
Roman Catholic	40	720	14,494	890
Other church-affiliated	48	528	8,221	458
Non-church-affiliated ...	52	971	15,390	1,037

Source: Hawaii State Department of Education, information provided January 20, 1983.

Table 87.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADES: SEPTEMBER 13, 1982

[Excludes the University Laboratory Schools.]

Grade	Total	Public	Private
All grades	200,129	162,024	38,105
Nursery	3,543	297	3,246
Kindergarten	15,400	12,493	2,907
1	15,011	12,311	2,700
2	14,148	11,646	2,502
3	13,896	11,537	2,359
4	13,695	11,365	2,330
5	13,738	11,420	2,318
6	14,365	12,005	2,360
7	15,020	11,729	3,291
8	14,462	11,280	3,182
9	14,758	11,971	2,787
10	14,746	12,012	2,734
11	14,168	11,550	2,618
12	12,942	10,398	2,544
Specials	10,237	10,010	227

Source: Hawaii State Department of Education, data supplied January 20, 1983.

Table 88.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1971-1972 TO 1981-1982

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1971-1972 ..	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ..	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 2/	360,316,441	30,489,000	2,163.62	19,858	163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

Source: Hawaii State Department of Education, data supplied January 20, 1983.

Table 89.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1977 TO 1982

Year	All federally-connected pupils		Military dependents	Others 1/
	Number	Percent of total enrollment		
1977	43,648	25.3	21,167	22,481
1978	43,460	25.5	21,423	22,037
1979	40,745	24.2	20,951	19,794
1980 2/	37,934	23.1	18,980	18,954
1981 2/	36,193	22.3	18,793	17,400
1982 3/	36,001	22.3	19,034	16,967

1/ Includes dependents of civilian employees of armed forces.
2/ Revised from Data Book 1982, table 78.
3/ Preliminary.
Source: Hawaii State Department of Education, records.

Table 90.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1973 TO 1983

[Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Under-graduates	Grad-uates	Other 4/		
1973 ..	39,858	22,272	16,905	4,110	1,257	2,784	-
1974 ..	40,719	21,526	16,215	4,059	1,252	3,031	-
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433

Year (Fall)	Community colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward	Kauai	Maui
1973 ..	14,802	2,774	3,559	5,376	829	1,004	1,260
1974 ..	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183

Footnotes and source follow next table.

Table 91.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1973 TO 1983

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 5/	Other 6/
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157
1979	69	2,785	1,063	122	122	134
1980	46	2,756	969	102	136	124
1981	57	2,618	968	115	152	106
1982	52	2,521	993	111	137	122
1983	52	2,639	938	120	132	120

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 7/	Associate degrees
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	34	509	1,964
1980	86	256	160	48	480	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo.

4/ Includes unclassified, special and no data on student level.

5/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

6/ Certificates in Dental Hygiene and professional diplomas.

7/ Includes certificates of achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, data provided November 30, 1983.

Table 92.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1981 AND 1982

[Excludes extension programs of mainland and foreign schools and other limited or specialized curriculum programs.]

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1981					
Fall enrollment 1/	6,772	2,045	2,208	312	2,207
Undergraduate	6,568	1,973	2,076	312	2,207
Graduate	153	21	132	-	-
Other 2/	51	51	-	-	-
Earned degrees conferred: 3/					
Associate	149	42	29	-	78
Bachelor's	510	141	232	25	112
Master's	33	-	33	-	-
Others	-	-	-	-	-
1982					
Fall enrollment 1/	6,619	1,786	2,113	402	2,318
Undergraduate	6,499	1,786	1,993	402	2,318
Graduate	120	-	120	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	170	37	41	-	92
Bachelor's	613	146	301	35	131
Master's	60	-	60	-	-
Others	-	-	-	-	-

1/ In regular credit programs.
2/ Includes unclassified and special.
3/ Year ended June 30.
Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 93.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES: 1973 TO 1980

[In thousands of dollars. For fiscal years.]

Fiscal year	State total	University of Hawaii at Manoa
1973	24,251	23,450
1974	30,850	30,412
1975	28,023	26,888
1976	37,615	34,937
1977	34,827	28,465
1978	44,070	25,884
1979	40,221	29,475
1980	44,940	31,935

Source follows next table.

Table 94.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES, BY INSTITUTION AND TYPE OF ACTIVITY: 1980

[In thousands of dollars. For fiscal year.]

Institution	Total, all activities	Academic science/ engineering		Non-science
		Total	Research and development	
All institutions	44,940	33,457	29,970	11,483
Chaminade Univ. of Honolulu	737	-	-	737
Hawaii Loa College	594	115	-	479
Hawaii Pacific College	396	-	-	396
U. of Hawaii--Community Colleges .	1,630	58	58	1,572
U. of Hawaii at Hilo	2,193	2,188	2,188	5
U. of Hawaii Systems Office	7,455	4,047	4,047	3,408
U. of Hawaii--Manoa	31,935	27,049	23,677	4,886

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1980, Final Report NSF 82-308 (1982), pp. 21, 23, and 78.

Table 95.-- EDUCATIONAL CHARACTERISTICS BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
SCHOOL ENROLLMENT						
Persons 3 years old and over enrolled in school	266,181	24,054	214,345	-	10,245	17,537
Nursery school	12,808	891	10,277	-	663	977
Public	3,200	309	2,318	-	261	312
Private	9,608	582	7,959	-	402	665
Kindergarten and elementary (1 to 8 years)	133,280	13,509	103,958	-	5,761	10,052
Public	110,704	12,627	84,729	-	4,830	8,518
Private	22,576	882	19,229	-	931	1,534
High school (1 to 4 years)	65,609	6,327	51,521	-	2,766	4,995
Public	54,785	5,774	42,131	-	2,675	4,205
Private	10,824	553	9,390	-	91	790
College	54,484	3,327	48,589	-	1,055	1,513
YEARS OF SCHOOL COMPLETED						
Persons 25 years old and over	547,608	53,704	428,566	142	23,137	42,059
Elementary (0 to 8 years)	88,545	10,800	61,905	71	6,218	9,551
High school: 1 to 3 years	54,793	5,924	42,728	31	2,077	4,033
4 years	192,042	19,078	152,346	29	6,549	14,040
College: 1 to 3 years	100,813	9,760	78,386	6	4,663	7,998
4 or more years	111,415	8,142	93,201	5	3,630	6,437
Percent high school graduates	73.8	68.9	75.6	28.2	64.1	67.7

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, PHC80-S2-13 (September 1982), table P-2.

Table 96.-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school .	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 51; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 97.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER: 1940 TO 1980

Year	Percent			Median years of school completed
	Less than 5 years of elementary school	High school graduates	4 or more years of college	
1940	37.1	20.5	5.3	6.9
1950	24.2	31.6	6.1	8.7
1960	15.0	46.1	9.0	11.3
1970	8.3	61.9	14.0	12.3
1980	5.3	73.8	20.3	12.7

Source: Robert C. Schmitt, Historical Statistics of Hawaii (The University Press of Hawaii, 1978), p. 227; U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 98.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1982

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 9,707 persons 25 years old and over.]

Years of school completed	25 years old and over	25 to 44 years old	45 to 64 years old	65 years old and over
All levels .	552,361	292,681	182,182	77,497
None	4,877	889	757	3,231
1 to 4 years	13,259	1,025	4,154	8,080
5 to 8 years	50,063	6,350	18,928	24,785
9 to 11 years ...	42,494	15,820	18,850	7,824
12 years	196,897	106,999	73,300	16,598
Vocational	26,624	13,439	10,423	2,762
13 to 15 years ..	85,025	62,249	19,211	3,565
16 years	71,058	49,349	17,640	4,070
17 years or more	51,571	33,149	15,648	2,774
Not reported	10,493	3,413	3,272	3,808
Median (years) 1/	12.7	12.4	12.6	8.9

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 99.-- STANFORD ACHIEVEMENT TEST RESULTS FOR GRADES 4, 6 AND 8: 1975 TO 1982

[In percent of students taking test. National norms are: above average--23 percent, average--54 percent, and below average--23 percent.]

Grade and year (Fall)	Reading skills			Math skills		
	Above average	Average	Below average	Above average	Average	Below average
Grade 4:						
1975	15	52	33	24	48	28
1976	12	55	33	20	46	34
1977	15	56	29	22	48	30
1978	16	57	27	23	50	27
1979	18	57	25	23	51	26
1980	18	58	24	23	51	26
1981	23	58	19	26	52	22
1982	21	59	20	24	53	23
Grade 6:						
1975	17	54	29	25	50	25
1976	16	55	29	22	47	31
1977	16	55	29	21	47	32
1978	18	57	25	25	50	25
1979	18	59	23	26	50	24
1980	19	60	21	26	51	23
1981	21	62	17	29	52	19
1982	22	62	16	28	53	19
Grade 8:						
1975	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976	12	55	33	20	46	34
1977	13	54	33	19	45	36
1978	13	54	33	22	51	27
1979	13	55	32	21	51	28
1980	14	56	30	23	51	26
1981	15	56	29	24	53	23
1982	15	59	26	25	53	22

NA Not available.

Source: State Department of Education, Office of the Superintendent, Planning and Evaluation Services Branch, "Summary Report of Grades 4, 6 and 8 Stanford Achievement Test Results, Fall 1979" (December 1979), "Summary Results of the Stanford Achievement Test, Fall 1981 Administration, Grades 4, 6, 8, and 10" (April 1982), a preliminary report, and unpublished results.

Table 100.-- HAWAII STATE LIBRARY SYSTEM LOCATIONS, PERSONNEL, AND HOURS: 1972 TO 1982

Year	Number of library locations			Personnel 1/		Hours open 2/
	State total	Oahu	Other islands	Librarians	All others	
1972 ..	40	19	21	117	350.17	63
1973 ..	40	19	21	111	340.17	56
1974 ..	40	19	21	102	306.07	56
1975 ..	42	20	22	96	312.95	54
1976 ..	43	20	23	103	304.48	54
1977 ..	44	20	24	113	311.95	54
1978 ..	45	21	24	115	310.45	54
1979 ..	46	22	24	117	312.80	54
1980 ..	47	22	25	122	313.30	54
1981 ..	47	22	25	122	315.30	54
1982 ..	47	22	25	124.40	349.55	54

1/ Full-time equivalent basis, excluding student help.

2/ Weekly totals for Hawaii State Library, 478 So. King St., Honolulu.

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted December 16, 1982.

Table 101.-- HAWAII STATE LIBRARY SYSTEM COLLECTIONS AND CIRCULATION: 1972 TO 1982

Year	Collections, June 30			Circulation, year ended June 30
	Books	Audio-visual microforms	Other print	
1972	1,292,020	(NA)	(NA)	4,130,736
1973	1,388,290	(NA)	(NA)	4,024,186
1974	1,473,353	(NA)	(NA)	3,984,706
1975	1,593,218	(NA)	(NA)	4,268,409
1976	1,665,098	(NA)	(NA)	4,424,434
1977	1,765,482	(NA)	(NA)	4,597,248
1978	1,837,166	425,342	770,527	4,860,029
1979	1,924,572	476,235	752,643	5,008,477
1980	2,025,200	513,595	797,691	5,042,682
1981	2,118,238	518,513	804,735	5,267,042
1982	2,238,973	285,326 1/	603,521 1/	5,263,130

NA Not available.

1/ Does not include Hawaii State Library.

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted December 16, 1982.

Table 102.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1982

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	47	436.55	5,263,130
Oahu	22	242.5	3,643,354
Hawaii State Library	1	69.0	517,066
Library for the Handicapped ..	1	14.0	37,029
East Oahu Library District ...	12	98.5	2,100,648
West Oahu Library District ...	8	61.0	988,611
Other islands	25	127.55	1,619,776
Hawaii Library District	13	59.55	812,690
Kauai Library District	5	30.0	414,337
Maui Library District 3/	7	38.0	392,749
Administration	...	66.50	...

District	Collections, June 30		
	Books	AVM 2/	Other print
Total system	2,238,973	285,326 4/	603,521 4/
Oahu	1,577,428	205,061 4/	323,128 4/
Hawaii State Library	442,482	(NA)	(NA)
Library for the Handicapped ..	74,818	77,993	3,627
East Oahu Library District ...	704,499	107,874	256,630
West Oahu Library District ...	355,629	19,194	62,871
Other islands	661,545	80,265	280,393
Hawaii Library District	285,128	27,048	89,037
Kauai Library District	177,683	35,049	94,883
Maui Library District 3/	198,734	18,168	96,473
Administration	...	...	...

NA Not available.

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

2/ Audio-visual microforms.

3/ Includes libraries on Lanai (1 location), Maui (5 locations), and Molokai (1 location).

4/ Figures do not include Hawaii State Library.

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted December 16, 1982.

Table 103.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1981 AND 1982

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1981	1982	1981	1982
All campuses	2,178,878	2,257,900	563,497	579,592
University of Hawaii at Manoa	1,786,122	1,852,813	357,285	375,785
West Oahu College	13,016	14,555	2,990	6,309
University of Hawaii at Hilo 1/	158,558	163,641	48,480	49,263
Community colleges, total 1/	221,182	226,891	154,742	148,235
Honolulu	44,442	46,324	33,691	45,797
Kapiolani	26,002	29,817	10,302	10,573
Leeward	62,063	59,051	58,125	42,618
Windward	25,090	26,373	9,618	9,890
Kauai	30,438	31,985	14,425	16,144
Maui	33,147	33,341	28,581	23,213

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from data provided by each campus librarian.

Section 4

LAW ENFORCEMENT, COURTS AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1982 numbered 65,000, compared with 64,000 in 1981 and 37,000 in 1972. The rate per 1,000 population increased from 45 in 1972 to 65 in 1981 and 66 in 1982. Seventy-seven percent of the 1982 total occurred on Oahu. For the State as a whole, major offenses known to police in 1982 included 31 murders or cases of non-negligent manslaughter, 342 rapes, 1,560 robberies, 609 aggravated assaults, 16,477 burglaries, 42,248 cases of larceny, and 4,181 auto thefts. The value of property reported stolen in 1982 amounted to $26 million, exclusive of motor vehicles; only 7.8 percent was recovered. In 1977, when asked whether they or their immediate families had been victims of crime (burglary, assault, etc.) in Hawaii since 1970, 40 percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Nineteen percent of the major offenses known to police were cleared by arrest or otherwise in 1982. Forty-two percent of the persons arrested for major crimes and 24 percent of those arrested for lesser offenses in 1982 were less than eighteen years of age. The number of inmates in the nine State correctional institutions averaged 1,155 during 1982; of this number, 681 were adults serving time for felonies. Cases filed in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1982 numbered 946,000, including 842,000 traffic cases. Filings in the United States District Court for Hawaii included 636 civil cases, 1,947 criminal cases, and 788 bankruptcy cases. The last legal execution in Hawaii took place in 1947. Governmental expenditures on the criminal justice system in 1979 amounted to $103 million, more than half of the total going for police protection. There were 2,788 attorneys licensed in Hawaii as of mid-1983.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1982-83, Section 6.

Table 104.-- CRIMINAL JUSTICE SYSTEM EXPENDITURE AND EMPLOYMENT: 1979

Subject	Total expenditure ($1,000) 1/	Employment, October: Total	Employment, October: Full-time equiv.	Payroll, October ($1,000)
Total	102,897	4,553	4,518	5,938
By level of government: 2/				
State	47,397	1,694	1,685	2,158
Local	57,282	2,859	2,833	3,780
By activity:				
Police protection	53,416	2,719	2,698	3,533
Judicial	15,275	682	681	837
Legal services and prosecution	6,987	323	318	500
Public defense	1,453	57	57	80
Corrections	23,951	743	735	942
Other criminal justice	1,815	29	29	47

1/ Fiscal year ended June 30, 1979.

2/ State and local government expenditures do not add to indicated total because duplicative intergovernmental transfers are netted out of total (see footnote 4, p. 44 of source).

Source: U.S. Department of Justice, Bureau of Justice Statistics, Justice Expenditure and Employment in the United States, 1979 (forthcoming).

Table 105.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1972 TO 1982

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1972	37,091	4,480	31,594	2,047	1,195	2,255
1973	41,850	4,918	35,275	2,612	1,596	2,367
1974	51,451	5,934	43,572	3,031	1,732	3,116
1975	51,777	5,857	43,612	3,192	1,777	3,196
1976	55,603	6,164	45,307	3,918	2,172	4,206
1977	57,977	6,329	46,389	4,178	2,127	5,283
1978	63,315	6,815	51,273	4,439	2,406	5,197
1979	65,629	6,908	52,310	4,619	2,472	6,228
1980	71,270	7,355	56,885	5,208	2,637	6,540
1981	64,061	6,543	49,548	5,623	2,505	6,385
1982	65,448	6,586	50,600	5,516	2,515	6,817

1/ Annual rate per 100,000 resident population (including armed forces), July 1, from DPED Statistical Report 147 (for 1972-1979) and Statistical Memorandum 83-4 (for 1980-1982).

Source: County police departments, annual reports and records; Hawaii Criminal Justice Data Center, records.

Table 106.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1982

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	Part I	Part II 2/	Part I	Part II 2/	Part I	Part II 2/
State total .	65,448	92,210	13,498	52,743	20.6	57.2
Honolulu	50,600	72,174	10,194	41,413	20.2	57.4
Hawaii	5,516	4,901	1,632	2,981	29.6	60.8
Kauai	2,515	2,835	439	1,346	17.5	47.5
Maui	6,817	12,300	1,233	7,003	18.1	56.9

1/ Data include prior year's offenses; percent cleared may thus exceed 100.0.

2/ Excludes traffic offenses.

Source: Hawaii Criminal Justice Data Center, special tabulation.

Table 107.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1972 TO 1982

Calendar year	Total Part I offenses	Murder; non-negligent manslaughter	Manslaughter (negligent)	Rape	Robbery
1972	31,594	46	31	144	424
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,273	35	114	181	1,478
1979	52,310	49	120	225	1,555
1980	56,885	65	120	257	1,715
1981	48,938	40	97	239	1,311
1982 1/	49,826	25	29	246	1,458

Calendar year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1972	343	8,943	18,706	7,829	2,957
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	303	13,712	31,037	16,610	4,413
1979	349	12,664	31,616	17,539	5,732
1980	384	13,705	35,446	20,195	5,193
1981	326	12,461	30,761	17,839	3,703
1982 1/	381	12,241	31,731	17,897	3,715

1/ Preliminary.

Source: Honolulu Police Department, Statistical Report (annual), and data supplied May 4, 1983.

Table 108.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1982

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	65,448	50,600	12,172	9,646	18.6	19.1
Murder and non-neg. manslaughter	31	25	41	38	132.3	152.0
Manslaughter (neg.) ...	–	–	18	12	–	–
Rape	342	269	153	123	44.7	45.7
Robbery	1,560	1,457	699	637	44.8	43.7
Aggravated assault	609	400	321	229	52.7	57.3
Burglary	16,477	12,381	2,042	1,509	12.4	12.2
Larceny over $200	13,385	10,125	8,185	6,539	19.4	20.2
Larceny, $50-$200	10,930	8,256				
Larceny, under $50	17,933	14,035				
Auto theft	4,181	3,652	713	559	17.1	15.3

1/ Data include clearance of offenses reported in previous years; percent cleared may thus exceed 100.0.

Source: Hawaii Criminal Justice Data Center, special tabulation.

Table 109.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1972 TO 1982

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
	Number	Percent	Total	Juveniles under 18 years		18 years of age and over
				Male	Female	
1972 ..	10,028	32	5,954	2,406	1,035	2,513
1973 ..	8,721	25	6,558	2,623	1,005	2,930
1974 ..	9,727	22	8,043	3,227	1,027	3,789
1975 ..	9,235	21	7,696	3,186	1,134	3,376
1976 ..	12,747	28	8,915	3,647	1,316	3,952
1977 ..	11,460	25	8,429	3,355	1,117	3,957
1978 ..	11,955	23	8,234	3,222	1,064	3,948
1979 ..	10,844	21	8,125	3,051	1,079	3,995
1980 ..	11,522	20	9,151	3,297	1,074	4,780
1981 ..	8,701	18	8,495	2,863	985	4,647
1982 2/	8,145	16	9,223	3,116	945	5,162

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

2/ Preliminary.

Source: Honolulu Police Department, Statistical Report (annual), and data supplied May 4, 1983.

Table 110.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1982

Age and sex	Arrested for Part I offenses		Arrested for Part II offenses (except traffic)	
	State total	Oahu only 1/	State total	Oahu only
Total	12,172	9,646	27,445	20,954
Juveniles	5,158	4,093	6,524	4,688
Male	3,934	3,142	4,596	3,346
Female	1,224	951	1,928	1,342
Adults	7,014	5,553	20,921	16,266
Male	4,963	3,902	17,634	13,666
Female	2,051	1,651	3,287	2,600

1/ Index offenses only.
Source: Hawaii Criminal Justice Data Center, special tabulation.

Table 111.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1972 TO 1982

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1972 ...	6,249.2	566.7	9.1
1973 ...	7,660.5	980.0	12.8
1974 ...	9,732.7	558.1	5.7
1975 ...	11,628.1	828.1	7.1
1976 ...	14,438.7	1,375.4	9.5
1977 ...	15,473.3	1,496.2	9.7
1978 ...	20,151.1	1,817.2	9.0
1979 ...	21,639.6	1,861.6	8.6
1980 ...	27,605.8	1,427.3	5.2
1981 ...	26,965.5	1,961.7	7.3
1982 1/	23,920.2	1,940.2	8.1

1/ Preliminary.
Source: Honolulu Police Department, Statistical Report (annual), and data supplied May 4, 1983.

Table 112.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1982

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	38,525.2	10,356.1	26.9
Oahu only	31,241.4	8,489.2	27.2
Locally stolen motor vehicles:			
State total	12,524.0	8,328.0	66.5
Oahu only	10,817.9	6,932.5	64.1
Other stolen property:			
State total	26,001.2	2,028.1	7.8
Oahu only	20,423.5	1,556.7	7.6

Source: Hawaii Criminal Justice Data Center, special tabulation.

Table 113.-- ESTIMATED DIRECT ANNUAL WHITE-COLLAR CRIME LOSSES: 1974

[In millions of dollars. Estimates were generally computed by applying various Hawaii-to-U.S. economic ratios to national estimates of white collar crime losses cited in a 1974 Chamber of Commerce of the United States publication.]

Category	Losses
All categories	117.3
Bribery, kickbacks and payoffs	12.2
Consumer fraud	28.2
Business tax fraud	42.7
Pilferage	20.0
Embezzlement	12.2
Computer crime	2.0

Source: Michael S. Glass, University of Hawaii Law School, White Collar Crime in Hawaii (May 1976).

Table 114.-- MARIJUANA CONFISCATED BY AUTHORITIES, BY COUNTIES: 1981 AND 1982

County	Weight 1/ (tons)		Estimated value ($1,000)	
	1981	1982	1981	1982
State total	84.0	73.8	37,741.5	30,904.3
Hawaii	32.3	50.4	14,919.0	20,165.0
Maui	10.9	4.3	6,511.5	3,119.7
Honolulu	28.1	10.0	11,231.0	3,941.4
Kauai	12.7	9.1	5,080.0	3,678.2

1/ "Wet" unprocessed weight.

Source: Hawaii State Department of the Attorney General, Hawaii Criminal Justice Information Data Center, information compiled from county police departments.

Table 115.-- FINAL DISPOSITIONS OF ADULT FELONY AND MISDEMEANOR ARRESTS, BY COUNTIES: SEPTEMBER 1, 1979 TO AUGUST 31, 1980

Type of charge and disposition	State total	Honolulu	Hawaii	Kauai	Maui
FELONIES					
Arrests	2,726	2,178	250	110	188
Releases	2,325	1,894	212	81	138
Police 1/	1,926	1,675	158	27	66
Prosecutor	134	49	9	32	44
District Court	17	4	6	2	5
Circuit Court	248	166	39	20	23
Convictions	401	284	38	29	50
Non-prison sentence	310	204	31	27	48
Prison sentence	91	80	7	2	2
Percent convicted	14.6	13.0	15.2	26.4	26.6
Percent prison sentence	3.3	3.7	2.8	1.8	1.1
MISDEMEANORS					
Arrests	9,924	8,172	710	703	735
Releases	3,155	2,505	334	109	207
Police	482	273	142	17	50
Prosecutor	59	4	26	29	-
District Court	2,569	2,207	152	55	155
Circuit Court	45	21	14	8	2
Convictions	6,769	5,667	376	198	528
Percent convicted	68.2	69.3	53.0	64.5	71.8

1/ Releases at this level should not be construed to mean that police do not have enough evidence to charge. In many instances releases occur on advice of prosecutor due to large number of cases pending, to another agency, and pending further investigation and review.

Source: Hawaii Criminal Justice Statistical Analysis Center, Adult Arrest Dispositions in Hawaii, September 1, 1979-August 31, 1980 (January 1981), pp. 15, 17, 21 and 23.

Table 116.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1982

[Approximate data.]

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	5,162	16,094
Released	909	1,236
Charged	4,253	14,858
Dispositions by district and circuit courts	2,030	7,133
Convicted	587	4,647
Fine	302	3,409
Jail	189	801
Probation, suspended sentence	96	437
Other convictions	-	-
Bail forfeitures	7	290
Discharged	1,366	1,981
Stricken N/P	70	215
JUVENILES		
Arrests	4,061	4,748
Released without charges	746	225
Counseled and released	1,515	1,417
Social agencies	-	38
Family Court	1,521	2,930

Source: Honolulu Police Department, data supplied May 4, 1983.

Table 117.-- CHILD ABUSE AND NEGLECT REPORTS: 1979 AND 1980

[Compilation of these statistics was discontinued after 1980.]

Year	Abuse		Neglect	
	Reports	Confirmed	Reports	Confirmed
1979	1,409	713	881	396
1980	1,368	717	859	355

Source: State Department of Social Services and Housing, Public Welfare Division and Research and Statistics Office, A Statistical Report on Child Abuse and Neglect in Hawaii (annual).

Table 118.-- LEGAL SERVICES: 1977

[Data limited to taxable legal services.]

Subject	All legal forms	Sole practitioners	Partnerships	Professional service organizations
All establishments:				
Number	506	374	85	47
Receipts ($1,000)	68,671	15,821	40,569	12,281
Establishments with payroll:				
Number	322	200	78	44
Receipts ($1,000)	65,120	12,625	40,365	12,130
Operating expenses ($1,000)	38,393	6,732	20,359	11,302
Paid employees, mid-March	1,447	345	840	262
Associate lawyers	327	29	175	123
Paraprofessionals	82	26	47	9
All others	1,038	290	618	130
Sole practitioners and partners, mid-March	452	187	265	-

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-5, Legal Services (March 1981), tables 1 and 4.

Table 119.-- JUDGES, MAGISTRATES, AND ATTORNEYS: 1982 AND 1983

[As of June 30.]

Category	1982	1983
Federal judges and magistrates: 1/		
U.S. Bankruptcy Court	1	1
U.S. District Court	4	3
State justices and judges: 2/		
Supreme Court	5	5
Intermediate Court of Appeals	3	3
Circuit Courts	21	21
Assigned to the Family Court	2	2
District Courts	25	25
Assigned to the Family Court	7	7
Attorneys licensed in Hawaii	2,715	2,788

1/ Full-time and part-time. In addition, 1 judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions. Data include one circuit judgeship in Kona which was not filled until July 2, 1982.

Source: Office of the Clerk, U.S. District Court, records; Office of the Clerk, U.S. Bankruptcy Court, records; Office of the Administrative Director of the Courts, State Judiciary, information provided November 18, 1982, and July 20, 1983.

Table 120.-- UNITED STATES DISTRICT COURT CASES: 1980 TO 1982

[Years ended June 30.]

Subject	1980	1981	1982
Civil cases:			
Commenced	722	595	636
Terminations	754	518	685
Pending, end of period	992	1,069	1,020
Criminal cases:			
Commenced (including transfers)	1,318	1,540	1,947
Terminations	1,502	1,438	1,964
Pending, end of period	490	592	575
Bankruptcy:			
Commenced, total	670	781	788
Business 1/	126	232	257
Nonbusiness 1/	391	546	527
Terminations	326	418	601
Pending, end of period	1,028	1,391	1,578

1/ Data available only for cases originally filed on or after October 1, 1979, when the Bankruptcy Reform Act went into effect. The figures for 1980, therefore, cover only a nine month period.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1980, 1981 and 1982.

Table 121.-- STATE JUDICIARY TERMINATIONS: 1973 TO 1983

[Fiscal years ended June 30.]

Court and type of case	1973	1974	1975	1976	1977	1978
All courts, total ..	567,514	592,973	604,176	623,453	685,282	719,773
Supreme Court	347	383	405	520	563	729
Civil cases	91	88	69	97	97	95
Criminal cases	39	46	65	50	41	68
Other proceedings	217	249	271	373	425	566
Circuit Courts proper ...	9,323	7,686	9,334	8,094	8,626	9,151
Civil cases	3,029	2,575	3,870	3,462	3,732	4,073
Criminal cases	2,318	1,827	2,097	1,638	1,532	1,716
Part I offenses	879	741	885	654	766	764
Part II offenses	1,439	1,086	1,212	984	766	952
Other proceedings	3,976	3,284	3,367	2,994	3,362	3,362
Family Courts	17,716	16,310	17,015	17,256	19,010	20,194
Civil cases	6,476	7,074	6,624	7,396	8,538	9,314
Criminal cases	19	21	31	45	24	50
Other proceedings	11,221	9,215	10,360	9,815	10,448	10,830
District Courts	540,128	568,594	577,422	597,583	657,083	689,699
Civil cases	13,888	12,831	12,232	10,953	10,330	10,200
Traffic cases	499,389	520,964	524,345	545,340	609,323	640,468
Other violations	14,796	17,667	20,733	24,881	18,926	18,888
Criminal cases	12,055	17,132	20,112	16,409	18,504	20,143
Part I offenses	2,246	3,005	3,781	2,515	3,254	3,368
Part II offenses	9,809	14,127	16,331	13,894	15,250	16,775

Continued on next page.

Table 121.-- STATE JUDICIARY TERMINATIONS: 1973 TO 1983 -- Con.

Court and type of case	1979	1980	1981	1982	1983
All courts, total ..	818,750	760,231	890,048	946,347	999,447
Supreme Court 1/	876	1,023	1,158	1,434	1,483
Civil cases	111	75	116	168	250
Criminal cases	149	150	136	140	164
Other proceedings	616	798	906	1,126	1,069
Intermediate Court of Appeals 2/	...	42	350	298	222
Civil cases	...	13	157	136	91
Criminal cases	...	21	45	27	35
Other cases	...	8	148	135	96
Circuit Courts proper ...	8,744	10,581	8,778	9,882	10,304
Civil cases	3,367	3,871	3,627	4,401	4,732
Criminal cases	1,962	2,279	1,853	2,145	1,865
Part I offenses	837	844	788	937	737
Part II offenses	1,125	1,435	1,065	1,208	1,128
Other proceedings	3,415	4,431	3,298	3,336	3,707
Family Courts	20,952	21,525	20,442	21,179	22,176
Civil cases	10,277	10,510	9,252	10,121	9,619
Criminal cases	40	81	45	47	45
Other proceedings	10,635	10,934	11,145	11,011	12,512
District Courts	788,178	727,060	859,320	913,554	965,262
Civil cases	11,382	11,894	15,992	22,597	18,926
Traffic cases	733,196	669,033	792,767	841,844	897,713
Other violations	22,096	22,696	24,401	24,066	23,351
Criminal cases	21,504	23,437	26,160	25,047	25,272
Part I offenses	3,651	3,513	4,426	4,275	5,259
Part II offenses	17,853	19,924	21,734	20,772	20,013

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, and 94 in 1983.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, and 1 in 1983.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 122.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1981 AND 1982

[Years ended June 30.]

Court and type of action	1981	1982
Supreme Court, total	1,251	1,413
Primary cases	356	387
Appeals	332	361
Original proceedings	24	26
Supplemental proceedings	895	1,026
Intermediate Court of Appeals, total	254	254
Primary cases	117	127
Appeals	117	125
Original proceedings	-	2
Supplemental proceedings	137	127
Circuit Courts Proper, total	12,591	15,182
Primary proceedings	11,272	13,802
Civil actions	5,421	7,733
Probate proceedings	1,586	1,682
Guardianship proceedings	378	406
Miscellaneous proceedings	1,220	1,171
Criminal actions	2,667	2,810
Part I offenses	1,136	1,098
Part II offenses	1,531	1,712
Supplemental proceedings	1,319	1,380
Family Courts, total	23,860	26,659
Primary proceedings, referrals	20,231	22,330
Marital actions, proceedings	7,894	8,497
Adoption proceedings	723	736
Paternity/parental proceedings	1,149	1,818
Miscellaneous proceedings	2,190	2,422
Criminal actions	81	108
Adults' referrals	654	632
Children and minors' referrals	7,540	8,117
Supplemental proceedings	3,629	4,329
District Court, total	843,181	938,862
Civil	16,907	17,327
Regular	13,552	12,994
Small claims	3,355	4,333
Traffic	772,650	869,051
Moving - arrest and citation	169,631	181,767
Non-moving	78,969	129,903
Parking	524,050	557,381
Other violations	27,572	26,123
Criminal actions	26,052	26,361
Part I offenses	4,579	4,877
Part II offenses	21,473	21,484

Source follows next table.

Table 123.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1981 AND 1982

[Years ended June 30.]

Court and type of termination	1981 1/	1982
Supreme Court, total	1,279	1,566
Opinion filed	146	194
Dismissal motion granted	4	26
Withdrawn or discontinued	101	88
Transferred	121	132
Other disposition	907	1,126
Intermediate Court of Appeals, total	351	302
Opinion filed	193	167
Dismissal motion granted	-	-
Withdrawn or discontinued	16	5
Transferred	1	4
Other disposition	141	126
Circuit Courts Proper, total	8,778	9,882
No service	488	790
No answer	587	734
No statement of readiness	90	29
Dismissal: Notice of	568	785
Stip. for	1,274	1,472
By judge	659	706
Nonjury: Trial	107	189
Trial not completed	6	6
Jury: Verdict	214	235
Trial not completed	25	10
No trial held	808	865
Hearings: Contested	382	313
Uncontested	1,370	1,641
Others	2,200	2,107
Family Courts, total	20,442	21,179
Nolle prosequi	27	18
Dismissal	8	12
Nonjury: Trial	47	47
Trial not completed	-	5
Jury: Verdict	13	9
Trial not completed	-	-
No trial held	807	831
Hearings: Contested	3,164	4,287
Uncontested	7,069	7,431
Counseling service	4,159	3,557
Others	5,148	4,982

Continued on next page.

Table 123.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1981 AND 1982 -- Con.

[Years ended June 30.]

Court and type of termination	1981 1/	1982
District Court, total	859,320	913,554
Felonies	1,119	1,445
Stricken or discharged	289	264
By commitment to Grand Jury	663	853
By commitment to Circuit Court	167	328
Misdemeanors	25,041	23,602
By discharge or dismissal	6,499	6,021
By nolle prosequi	1,716	1,601
Stricken	2,523	1,641
By bail forfeiture	2,007	1,993
By commitment to Circuit Court	492	554
By conviction	11,804	11,792
Civil cases	15,992	22,597
By discontinuance or dismissal	5,999	11,636
By default or confession	8,853	9,778
By trial	1,044	1,094
By commitment to Circuit Court	96	89
Traffic and other violations	817,168	865,910
By discharge or dismissal	80,514	117,181
By nolle prosequi	11,505	15,028
Stricken	90,648	72,607
By bail forfeiture	471,610	518,855
By commitment to Circuit Court	59	9
By conviction	162,832	142,230

1/ Supreme Court data corrected from 1982 edition, table 110, p. 127.

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1980 to June 30, 1981*, pp. 57, 58, 63, 68, and 73; *The Judiciary, State of Hawaii, Annual Report, July 1, 1981 to June 30, 1982, Statistical Supplement*, tables 1A, 1B, 7, 17, and 22.

Table 124.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1972 TO 1982

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977.]

Year	All categories	Adult facilities			Juvenile facilities	
		Felons	Misdemeanants 1/	Not sentenced	Boys	Girls
1972	(NA)	256	(NA)	(NA)	49	9
1973	(NA)	300	(NA)	(NA)	63	19
1974	(NA)	302	(NA)	(NA)	62	17
1975	(NA)	312	(NA)	(NA)	60	16
1976	530	326	47	100	46	11
1977	544	319	39	117	56	13
1978	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10
1981	952	561	82	210	88	11
1982	1,155	681	86	295	85	8

NA Not available.

1/ Includes felon probationers serving jail terms under one year.

Source: Hawaii State Intake Service Center, information submitted December 1, 1982.

Table 125.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION: 1976 TO 1982

[These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences.]

Year ended June 30	Median age (years) 1/		Average sentences (months)				
			Felons admitted		Felons released		
	At admission	Currently	Minimum	Maximum	Minimum	Maximum	Time served
1976	25.7	26.2	43.8	80.5	31.5	126.3	30.2
1977	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980	26.1	25.3	69.4	151.3	53.7	113.6	46.4
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2

1/ For felon population on June 30.

Source: State Department of Social Services and Housing, State Intake Service Centers, Trends of the Felon Population: Adults Committed to Correctional Facilities, FY 1974-75 to FY 1981-82, Report No. 83-001 (January 1983), pp. I-4 to I-7.

Table 126.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1981 AND 1982

[Years ended June 30.]

Item	1981	1982
Number of parolees, June 30	442	416
Parolees in Hawaii	284	159
Parolees outside Hawaii	43	24
Absconders	115	115
Minimum imprisonment terms fixed	530	597
Number of persons for whom terms fixed	218	247
Persons considered for parole	158	139
Paroles granted	72	52
Paroles denied 1/	54	68
Persons reconsidered for minimum terms previously set	58	44
Terms reset	2	1
Terms reset/parole granted	5	2
Terms undisturbed	43	30
Deferred reconsideration	8	11
Parole violation hearings	24	35
Parole revocations	10	26
Continued on parole	4	2
Deferred decision/hearing	10	5
Pardon investigations	19	19
Persons pardoned	13	7
Persons whose paroles were suspended because their whereabouts unknown	7	5
Status reports	129	112
Discharges	59	50
Discharged from parole	31	32
Final discharge	25	15
Deceased	3	3

1/ 1981 figure revised from Data Book 1982, table 112.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Table 127.— LEGAL EXECUTIONS: 1826 TO 1982

[Capital punishment was abolished in Hawaii by legislation approved on June 4, 1957. For annual statistics, explanatory footnotes, and detailed source citations, see The State of Hawaii Data Book 1982, table 113, pp. 131-132.]

Period	Persons executed	
	Total	Civilians
1826-1899 1/	31	31
1900-1931	(NA)	34
1932-1947 2/	11	8
1948-1982	-	-

NA Not available.

1/ Data complete for 48 years, possibly incomplete for 2, and lacking for 24.

2/ The most recent recorded civilian execution occurred in 1944; the most recent military execution, in 1947.

Source: References cited in The State of Hawaii Data Book 1982, table 113.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, and other geographic and environmental measurements of Hawaii.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: 39 major beaches surveyed in 1982 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 222.6, and all but one were within EPA standards. More than 1,100 species, subspecies, and varieties of native flora were endangered, threatened, or extinct, according to a 1977 survey. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Normal precipitation, however, ranges from 8.7 inches at Kawaihae, South Kohala, to 451 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1980 averaged 2.7 billion gallons per day, compared with 2.8 billion in 1975 and 2.7 billion in 1970. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Atlas of Hawaii*, published by the University Press of Hawaii in 1983. National data are reported in *Statistical Abstract of the United States: 1982-83*, Section 7.

Table 128.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Atoll	820	1,319
Kingman Reef	1,073	1,726
Kiritimati (Christmas Island), Kiribati	1,344	2,163
Kolonia, Ponape	3,087	4,967
Koror, Palau	4,593	7,390
Kwajalein, Marshall Islands	2,443	3,931
Majuro, Marshall Islands	2,271	3,654
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193

Continued on next page.

Table 128.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Palmyra Atoll	1,101	1,772
Papeete, Tahiti	2,741	4,410
Saipan, Northern Mariana Islands	3,704	5,960
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 129.-- GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilometers
Hilo to —		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to —		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 130.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha	29.6	47.6	6,810	2,076
Alalakeiki	6.7	10.8	822	251
Kealaikahiki	17.8	28.6	1,086	331
Auau	9.5	15.3	252	77
Kalohi	9.2	14.8	540	165
Pailolo	8.8	14.2	846	258
Kaiwi	25.8	41.5	2,202	671
Kauai	72.1	116.0	10,890	3,319
Kaulakahi	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, in November 1980.

Table 131.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 132.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

County or island	Square miles		
	Total	Land 2/	Inland water 3/
State total	6,470.8	6,425.2	45.6
Counties: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu	620.5	596.3	24.2
Kauai	629.8	619.8	10.0
Islands: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui 5/	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau and Lehua	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands 6/	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 132.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

County or island	Square kilometers 1/		Acres 1/	
	Total	Land 2/	Total	Land 2/
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu	1,607.1	1,544.4	397,120	381,632
Kauai	1,631.2	1,605.3	403,072	396,672
Islands: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui 5/	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau and Lehua	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands 6/	7.5	7.0	1,862	1,722
Nihoa	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

Footnotes and source on next page.

Table 132.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

6/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983, as cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 133.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1980 1/	
All named islands	137	15	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	8	7.6
Offshore of major islands	96	4	2.6
Northwestern Hawaiian Islands 3/	33	4	4.9
Part of State	28	3	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 4.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ The 33 islets are in 10 clusters.

Source: Hawaii State Department of Planning and Economic Development, Geographic Names Approved, Second Quarter 1969 (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum, February 23, 1983; present report, table 4.

Table 134.-- MAJOR SUMMITS

[Elevation of the highest point on each island
and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 1/	13,677	4,169
Hualalai	8,271	2,521
Kohala	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Pu'u Moa'ulanui 2/	1,477	450
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,970	1,515
Olokui	4,602	1,403
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,020	1,225
Puu Kalena	3,504	1,068
Konahuanui 3/	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 134.-- MAJOR SUMMITS -- Con.

Island and mountain	Elevation	
	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nounou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	702	214
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands 4/	12	4
Kure Atoll	20	6
Kingman Reef 4/	3	1
Palmyra Island 4/	6	2
Johnston Atoll: 4/		
Sand Island	15	5

1/ The adjacent ocean floor has an average depth of 2,800 fathoms and a maximum depth of 3,045 fathoms. Thus, Mauna Kea and Mauna Loa rise respectively 30,596 feet and 30,477 feet above their submarine bases as calculated from average depths, and respectively 32,066 and 31,497 feet above as calculated from maximum depths. So measured, Mauna Kea and Mauna Loa are the world's tallest mountains.

2/ Lua Makika on earlier maps.

3/ Two distinct peaks. The lower one has an elevation of 3,105 feet.

4/ Not part of the State of Hawaii.

Source on next page.

Table 134.-- MAJOR SUMMITS -- Con.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, Elevations of Major Mountains in Hawaii (Statistical Report 52, November 7, 1967), as revised by U.S. National Cartographic Information Center, October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll); A. B. Amerson, Jr., and P. C. Shelton, The Natural History of Johnston Atoll, Atoll Research Bull. No. 192 (The Smithsonian Institution, Dec. 1976). Data compiled with assistance of Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum.

Table 135.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago.]

Category	Square nautical miles	Square statute miles	Square kilometers
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978

Table 136.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day): 2/		
Hawaii	Wailuku River	185
Maui	Iao Stream	54
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
Kauai	Hanalei River	140

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (2), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

2/ Revised from Data Book 1982, table 121.

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 15; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 137.-- MAJOR NAMED WATERFALLS IN HAWAII, BY ISLANDS

Island	Waterfall 1/	Height (feet)		Horizontal distance (feet)	Average discharge (million gal./day)
		Sheer drop	Cascade		
Hawaii	Kaluahine	...	620	400	...
	Akaka	442	...	...	...
	Waiilikahi	320	...	...	6.6
	Hiilawe (3 falls)	...	300	200	...
	Rainbow	80	...	...	303.5
Maui	Honokohau	...	1,120	500	25.2
	Waihiumalu	...	400	150	...
	Waimoku	...	40	50	37.1
Molokai	Kahiwa	...	1,750	1,000	...
	Papalaua	...	1,200	500	...
	Wailele	...	500	150	...
	Haloku	...	500	200	...
	Hipuapua	...	500	300	...
	Olupena	...	300	150	...
	Moaula	...	250	200	19.7
Oahu	Kaliuwaa (Sacred) 2/	80	1,520	3,000	...
	Waihee (Waimea)	40	...	...	6.8
	Manoa	...	200	250	2.4
Kauai	Waipoo (2 falls)	...	800	600	...
	Awini	...	480	500	...
	Hinalele	280	...	...	...
	Kapakanui	280	...	...	...
	Manawaiopuna	280	...	...	...
	Wailua	80	...	...	...
	Opaekaa	40	...	...	...
	Puwainui	20	...	...	90.9

1/ Includes the largest named waterfall on each major island, either in height or average discharge; all other named falls 250 feet high or over; and well-known smaller falls. Many unnamed falls have sheer drops of 200 feet or more.

2/ Sheer drop refers to northermost fall of a cascade of six falls.

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), table 13, as revised by the Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, June 15, 1982.

Table 138.-- LAKES

[Data shown for the largest natural or man-made lake on each island, and other lakes of interest. Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake in the State is Halalii Lake, Niihau, with a maximum area of 840.7 acres.)

Island	Name	Category 1/	Maximum depth (feet)	Elevation (feet)	Area (acres)	Shoreline (miles)
Hawaii ..	Waiakea Pond	Natural	(NA)	Sea Level	27	2
	Lake Waiau 2/ ...	Natural	10	13,020	2	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea Level	41	2
	Violet Lake	Natural	(NA)	5,020	1	0.1
Kahoolawe	None					
Lanai ...	None					
Molokai .	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	302	11
	Salt Lake 3/	Natural	(NA)	Sea Level	273	2
Kauai ...	Waita Reservoir .	Man-made	23	241	424	3
Niihau ..	Halulu Lake	Natural	(NA)	Sea Level	182	3

NA Not available.

1/ At the present time there are no natural lakes on Kahoolawe, Lanai, Oahu, or Kauai.

2/ Highest lake in the State and third highest in the United States.

3/ Data refer to 1964. Since that time, Salt Lake has been mostly filled and is no longer considered a lake.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 139.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation —		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1982 edition, p. 157) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 140.-- VOLCANIC ERUPTIONS: 1969 TO 1983

[Complete through March 15, 1983. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table.]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	300	<1	S	13,000-12,100	5.2	39,200
Kilauea:						
1969: Feb. 22 ...	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14 ...	-	<1	C	3,660-3,600	0.8	12,400
Sept. 24 ..	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	645	ER	3,150	13.7	167,000
1973: May 5	-	<1	ER	3,340-3,250	0.1	1,600
Nov. 10 ...	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12 ...	0.1	203	ER	3,150	3.1	39,300
1974: July 19 ...	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19 ..	2.0	<1	C	3,680	0.4	14,000
Dec. 31 ...	3.4	<1	C	3,600	2.9	19,600
1975: Nov. 29 ...	11.0	<1	C	3,600	0.05	330
1977: Sept. 13 ..	21.5	18	ER	1,600-2,080	3.0	45,000
1979: Nov. 16 ...	26.3	1	ER	3,270-3,200	0.1	800
1980: March 10 ..	3.8	<1	ER	3,150	(2/)	0.04
1982: April 30 ..	13.7	<1	C	3,630	0.1	260
Sept. 25 ..	4.9	<1	C	3,620	0.3	3,900
1983: Jan. 3	3.3	60	ER	2,520-860	(NA)	(NA)

NA Not available.

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

2/ Less than 100 square feet.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 7th edition (Hawaii Natural History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory through March 15, 1983.

Table 141.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1973 TO 1983

[Complete to March 16, 1983.]

Date		Location	Magnitude (Richter Scale)
1973:	Apr. 26	Hawaii	6.2
	Oct. 9	Hawaii	4.8-5
1974:	Nov. 30	Hawaii	5.5-6
1975:	Jan. 1, 2:41 AM ...	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM ...	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM ..	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM ..	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	March 29	40 miles S.W. of Oahu	5.5
	Sept. 21	Puna, Hawaii	5.5
1981:	March 5	Molokai area	5.0
	Nov. 10	Kilauea, Hawaii	5.3
1982:	Jan. 21, 11:52 AM .	Mauna Loa, Hawaii	5.5
	Jan. 21, 12:29 PM .	Mauna Loa, Hawaii	5.5
	May 14	Off Kawaihae, Hawaii	5.0

Source: Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii.

Table 142.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1983

[Correct to March 16, 1983.]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977).

Table 143.-- MAJOR DAMS: 1983

Name 1/	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

1/ Listed by volume of water impounded.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 144.-- WATER USE, BY TYPE, BY ISLANDS: 1980

[In millions of gallons per year.]

Type of water and use	State total	Hawaii	Maui	Lanai
Agricultural:				
Ground water	36,510	1,720	47,300	330
Surface water	237,950	3,630	129,130	-
Recycled water	32,970	50	9,730	-
Commercial:				
Ground water	2,770	1,470	-	-
Surface water	-	-	-	-
Recycled water	-	-	-	-
Domestic:				
Ground water	71,770	2,280	3,830	140
Surface water	3,880	130	3,500	-
Hydroelectric:				
Surface water	74,190	22,840	14,620	-
Industrial, thermoelectric:				
Ground water	31,520	24,740	-	-
Surface water	2,170	-	-	-
Seawater [1]	447,810	3,140	14,820	-
Industrial, other uses:				
Ground water	18,680	2,030	2,810	-
Surface water	11,220	4,080	2,910	-
Recycled water	4,130	1,900	160	-

Continued on next page.

Table 144.-- WATER USE, BY TYPE, BY ISLANDS: 1980 — Con.

Type of water and use	Molokai	Oahu	Kauai	Niihau
Agricultural:				
Ground water	140	70,360	16,650	10
Surface water	990	16,170	88,030	-
Recycled water	-	3,350	19,840	-
Commercial:				
Ground water	-	410	890	-
Surface water	-	-	-	-
Recycled water	-	-	-	-
Domestic:				
Ground water	270	63,250	1,990	10
Surface water	80	-	170	-
Hydroelectric:				
Surface water	-	-	36,730	-
Industrial, thermoelectric:				
Ground water	10	4,880	1,890	-
Surface water	-	-	2,170	-
Seawater 1/	-	425,900	3,950	-
Industrial, other uses:				
Ground water	-	7,340	6,500	-
Surface water	30	-	4,200	-
Recycled water	-	200	1,870	-

1/ Includes water from wells near the seacoast.

Source: Data compiled by U.S. Geological Survey for the Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, for use in a forthcoming report.

Table 145.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1979 TO 1982

Island and beach	Number of samples, 1982	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1979	1980	1981	1982
Hawaii (Hilo side):					
Exit of Ice Pond	21	42.3	41.6	178.3	27.3
Leileiwi Beach Park	21	93.5	195.5	219.3	222.6
Onekahakaha	11	6.8	13.5	8.2	17.3
Puhi Bay No. 3	11	6.9	9.1	30.4	18.1
Hawaii (Kona side):					
Hapuna Beach	6	6.1	16.2	19.5	33.0
Kahaluu Beach	6	2.7	2.5	2.0	2.3
Kealakekua Bay (off curio stand) .	6	2.6	2.5	2.3	2.3
Kealakekua Bay (off canoe landing)	6	3.0	2.8	2.4	2.3
Magic Sands Beach	6	3.2	3.6	2.4	8.0
Puako Beach Lots (middle)	6	13.8	16.7	9.0	29.6
Puako Beach Lots (far end)	6	17.4	35.8	18.6	74.0
Spencer Beach Park	6	9.3	7.8	29.5	14.6
Maui:					
Hukilau Hotel shoreline	12	5.6	3.3	2.0	2.9
Kahului Breakwater	12	7.6	2.1	2.0	3.1
Wailuku Breakwater	12	5.5	4.2	2.8	3.4
Oahu:					
Ala Moana Park (ewa)	21	5.6	5.1	5.6	11.0
Ala Moana Park (center)	12	3.7	3.1	4.1	4.9
Ala Moana Park (diamond head)	12	6.8	7.9	5.4	5.8
Elks Club Beach	12	15.8	5.9	4.0	4.9
Ewa Beach	11	4.5	4.3	6.3	5.5
Ft. DeRussy Beach	12	18.5	7.2	5.2	18.5
Gray's Beach	21	6.9	5.7	5.7	6.0
Hanauma Bay	24	10.0	5.1	8.1	13.0
Kahana Park Beach	12	42.9	35.9	43.6	62.2
Kahanamoku Beach	12	17.3	8.9	4.5	3.3
Kahanamoku Lagoon (diamond head) .	22	94.8	127.3	79.8	38.5
Kailua Bay outfall shoreline	12	2.5	8.8	2.3	5.3
Kailua Beach Park	12	17.8	13.2	3.7	5.7
Kokokahi Pier	14	45.6	60.6	25.6	48.5
Kuhio Beach	14	17.9	37.3	5.2	23.9
Public Bath Beach	21	4.3	4.6	3.6	3.3
Tavern Beach	13	8.9	17.9	3.5	7.3
Sand Island Pt. No. 1	12	13.9	3.6	2.0	4.1
Sand Island Pt. No. 2	12	33.2	3.9	15.1	8.7
Sand Island Pt. No. 3	12	89.6	8.9	4.4	2.7
Sand Island Pt. No. 4	12	19.6	17.3	7.7	26.5

Continued on next page.

Table 145.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1979 TO 1982 - Con.

Island and beach	Number of samples, 1982	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1979	1980	1981	1982
Kauai:					
Brennecke Beach	4	2.9	2.7	2.0	2.0
Hanalei Bay Landing	4	25.5	30.6	16.7	60.1
Poipu Beach	4	3.7	2.3	2.7	2.5

1/ The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 26, 1983.

Table 146.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1981 AND 1982

Geographic area	Number of services, June 30		Consumption 1/ (millions of gallons)	
	1981	1982	1981	1982
State total	178,250	179,648	58,574	56,719
City and County of Honolulu	125,903	126,400	44,216	42,646
Honolulu 2/	58,349	58,159	25,086	24,317
Rest of Oahu	67,554	68,241	19,130	18,329
Hawaii County	23,215	23,682	4,664	4,753
Kauai County	10,632	10,823	2,780	2,805
Maui County	18,500	18,743	6,914	6,515
Maui	17,376	17,607	6,620	6,235
Molokai	1,124	1,136	294	280

1/ Year ended June 30.

2/ Maunalua to Moanalua.

Source: Honolulu Board of Water Supply, Annual Report and Statistical Summary for 1980-1981 and 1981-1982; Hawaii Department of Water Supply, Annual Report for 1980-1981 and 1981-1982; Kauai Department of Water, records; Maui Department of Water Supply, Annual Report for the Fiscal Year Ended June 30, 1982.

Table 147.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1972 TO 1982

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1972	41	11
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
Standards: 1/		
Primary	75	80
Secondary	60	None

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 26, 1983.

Table 148.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions. This table was incorrectly dated 1981 in the Data Book 1982, table 133.]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Ag. fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.1	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided April 26, 1983.

Table 149.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1982

[24-hour sampling, in micrograms per cubic meter.]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	15	63	41	<5	12	<5
Downtown Honolulu	11	42	29	<5	38	11
Kalihi Kai	25	102	47	<5	10	<5
Pearl City	19	54	31	<5	10	<5
Waikiki	15	52	29	<5	<5	<5
Waimanalo	12	64	27	...	...	...
Maui:						
Kahului	36	145	70	<5	143	14
Kihei	7	91	33	...	...	...
Hawaii:						
Hilo	8	31	16	<5	5	<5
Honokaa 1/	10	25	16	...	...	...
Kauai:						
Lihue	15	87	34	<5	<5	<5

1/ Site discontinued August 3, 1982.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 26, 1983.

Table 150.-- NOISE LEVELS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

[Data collected during the latter part of 1981 and throughout 1982, during daylight hours only. Data were obtained from both manual sampling, utilizing on-site noise-level readouts, and automatic sampling, utilizing a community noise analyzer. Differences in noise levels as measured by the two types of sampling result from the inclusion in the automatic samplings of such sources as vehicles traveling near the microphone, barking dogs, or other instantaneous sounds. With manual samplings, these sources are eliminated from the recorded data.]

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
HONOLULU						
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Downtown	57	55	54	60	57	55
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Liliha	46	45	43	-	-	-
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake	56	52	49	-	56	51
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
REST OF OAHU						
Aiea	58	54	52	59	56	54
Halawa	52	46	44	55	50	47
Hauula	53	48	45	56	51	47
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9

Continued on next page.

Table 150.-- NOISE LEVELS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982 -- Con.

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
REST OF OAHU -- Con.						
Mililani	44	37	34	53	46	41
Nanakuli	54	50	47	58	52	48
Pearl City	51	47	45	55	50	48
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo	53	50	48	55	51	49
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, data provided June 8, 1982 and April 29, 1983.

Table 151.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[^{o}F.]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1982.

Table 152.-- CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	26	71.0	75.9	53	94	133.57	40
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81	...
Kailua	30	72.1	77.3	54	93	25.22	...
Puako 1/	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei 3/	90	70.9	78.4	49	98	13.79	...
Kahuluī Airport	48	71.6	78.8	48	96	18.43	69
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	93	22.90	67
Honolulu Federal Bldg. 4/	12	72.0	78.6	57	88	25.35	65
Waikiki 5/	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...

Continued on next page.

Table 152.-- CLIMATIC DATA FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	451.00	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

1/ Temperature data are for Mohukona.

2/ Based on incomplete and non-continuous data for 1966-1972.

3/ Temperature data refer to Puunene Airport.

4/ Temperature sensors were 87 feet above the ground.

5/ Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, 1982 for Hilo, Kahului, Honolulu, and Lihue; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 7, 1983.

Table 153.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.3	65.3	72.3	87	53	4.40	14.74	0.34	6.72
Feb. .	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar. .	79.7	66.3	73.0	88	55	3.18	20.79	0.01	17.07
Apr. .	81.4	68.1	74.8	89	59	1.36	8.92	0.01	4.21
May ..	83.6	70.2	76.9	90	62	0.96	7.23	0.05	3.44
June .	85.6	72.2	78.9	91	65	0.32	2.46	T	2.28
July .	86.8	73.4	80.1	91	67	0.60	2.01	0.03	1.03
Aug. .	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct. .	85.8	72.0	78.9	93	64	1.51	11.15	0.11	7.57
Nov. .	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec. .	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann. .	83.3	69.8	76.6	93	53	22.90	20.79	T	17.07

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Table 153.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	81	63	9.9	67	62	5.5	9	9	10
Feb. ...	78	60	10.6	63	63	5.7	7	9	10
Mar. ...	73	59	11.6	59	68	5.9	7	10	9
Apr. ...	70	57	12.1	40	66	6.3	6	11	9
May	67	55	12.1	35	68	6.0	6	10	7
June ...	67	54	12.8	39	70	5.7	6	7	6
July ...	67	52	13.6	34	73	5.3	7	5	8
Aug	69	54	13.4	52	75	5.3	8	6	7
Sept. ..	67	52	11.7	36	75	5.2	8	6	7
Oct. ...	69	55	10.9	40	68	5.6	7	8	9
Nov. ...	75	59	11.0	65	61	5.7	7	9	9
Dec. ...	79	62	10.8	59	58	5.6	8	10	10
Ann. ...	72	57	11.7	67	67	5.7	86	100	102

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1982.

2/ Data for 1963, 1964, and 1972-1982.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1982.

Table 154.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.3
Highest monthly average maximum temp. (°F.)	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.)	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)		Kawaihae	8.7
Highest average annual rainfall (inches)		Waialeale	451
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970	Mauna Kea summit 2/	1.4
Highest temperature of record (°F.)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae	0.2
Highest annual rainfall of record (inches)	1982	Puu Kukui 3/	634
Highest wind speed of record (m.p.h.)	Nov. 23, 1982	Makahuena Pt. 4/	117

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39° F.

3/ West Maui Mountains.

4/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 7, 1983.

Table 155.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1972 TO 1982

Year	Average temperature (°F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1972 ...	76.2	70.4	81.1	53	90	26.94
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1972 ...	72	57	13.2	33	65	93
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 156.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1972 TO 1982

[In inches.]

Year	Hawaii			Maui		
	Hilo Airport	Kona Airport	Keahole Airport	Kahului Airport	Kihei	Lahaina
1972 ...	98.85	28.82	16.25	15.71	13.43	20.21
1973 ...	107.97	12.49	8.37	10.27	5.92	10.13
1974 ...	112.92	35.57	...	18.68	14.97	13.01
1975 ...	99.93	20.28	...	13.74	10.63	12.19
1976 ...	114.67	17.32	...	12.83	8.84	8.86
1977 ...	90.38	14.60	...	11.50	7.88	8.28
1978 ...	119.09	18.93	...	19.15	9.91	11.97
1979 ...	158.77	...	...	26.82	21.32	20.85
1980 ...	127.74	...	...	27.87	20.27	22.69
1981 ...	89.91	...	7.82	12.85	9.72	8.13
1982 ...	170.36	...	19.03	34.04	29.11	34.36

Year	Oahu			Kauai		
	Waikiki	Honolulu 1/	Honolulu Airport	Koloa	Lihue Airport	Kilauea Point
1972 ...	24.26	26.72	26.94	66.72	43.54	59.61
1973 ...	18.79	18.66	14.24	66.78	35.27	35.54
1974 ...	24.51	28.24	24.02	86.35	45.60	119.40
1975 ...	25.98	24.63	24.39	49.91	35.52	31.29
1976 ...	13.59	...	12.90	62.60	32.83	40.99
1977 ...	15.73	...	12.36	52.51	40.34	27.82
1978 ...	27.18	25.63	25.05	70.64	39.11	40.45
1979 ...	26.22	24.78	16.93	55.98	37.09	47.21
1980 ...	28.50	27.21	26.90	78.78	54.64	45.82
1981 ...	19.09	...	13.41	66.26	38.14	56.81
1982 ...	39.96	...	34.92	96.75	74.40	...

1/ Old Federal Building, 335 Merchant Street. Observations suspended November 26, 1976 to March 31, 1977, and discontinued in May 1981.

Source: U.S. Department of Commerce, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1982* for Hilo, Kahului, Honolulu, and Lihue and *Climatological Data Annual Summary, Hawaii and Pacific, 1982*; U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 157.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 158.-- MAJOR HURRICANES: 1950 TO 1982

Hurricane name	Date 1/	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (million dollars)
			Sustained	Gusts		
Hiki	Aug. 12-16, 1950	Kauai	68	(NA)	1	0.200
Della	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina	Nov. 29-Dec. 7, 1957	Kauai	92	(NA)	4	1.056
Dot	Aug. 1-8, 1959	Kauai	81	103	-	5.5+
Fico	July 17-28, 1978	Hawaii	(NA)	58+	-	0.188
Iwa	Nov. 19-25, 1982	Kauai, Oahu	65	117	-	234

NA Not available.

1/ Total duration, including period outside Hawaiian waters.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, Hurricane Iwa's Economic Impact on Hawaii (January 1983); "The History of Hurricanes in Hawaii," Honolulu Star-Bulletin, July 18, 1983, p. A-5; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, letter dated December 5, 1983.

Table 159.-- TROPICAL CYCLONES IN THE HAWAIIAN ISLANDS AND CENTRAL NORTH PACIFIC: 1832 TO 1979

Period	Number
1832 to 1899 1/	6
1900 to 1949 1/	13
1950 to 1959	17
1960 to 1969	34
1970 to 1979	34

1/ Data prior to 1950 are thought to be seriously incomplete.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981), p. 109.

Table 160.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time.]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 161.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1970 TO 1982

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.]

Species 1/	Annual averages 1970-1974	Annual averages 1975-1979	1980	1981	1982 2/
All species:					
Species	49	54	44	48	45
Individual birds	11,614	15,811	20,226	19,427	16,649
Endemic species:					
'Apapane	35	135	147	153	68
Hawaiian Coot	69	35	28	28	62
Hawaiian Stilt	112	128	115	92	77
Oahu 'Amakihi	42	132	152	159	65
Indigenous species:					
Great Frigatebird	614	597	615	366	24
Red-footed Booby	1,463	1,401	1,132	1,063	425
Introduced species:					
Barred Dove	1,468	2,216	2,541	3,694	3,442
Cattle Egret	759	1,156	1,072	682	331
Common Myna	2,567	2,241	3,577	2,917	2,790
House Sparrow	1,373	1,155	1,684	1,604	1,489
Japanese White-eye	450	1,165	1,003	970	1,121
Red-vented Bulbul	31	503	1,174	1,159	1,199
Spotted Dove	586	1,091	1,104	1,393	1,052
Migratory species:					
American Golden Plover	564	1,138	1,884	1,621	1,402
Ruddy Turnstone	97	165	397	361	291

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, *Hawaiian Birdlife* (1972).

2/ Excluding Moku Manu, previously included. Moku Manu had 4 species and 913 individuals (including 425 Red-footed Boobies and 460 Great Frigatebirds) in 1982.

Source: Hawaii Audubon Society, *The 'Elepaio* (monthly).

Table 162.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1981 AND 1982

Location	June 30, 1981	June 30, 1982
Along City and County streets and highways 1/	110,975	113,489
In City and County parks	96,250	96,296

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 163.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/ ...	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct .	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, agriculture in section 19, forests in section 20, cane land and industrial parks in section 22, and shopping centers in section 23.

Out of the 4,112,000 acres in the State, almost 1,300,000 are in cropland or pastureland. Other major categories include forestland, with 1,443,000 acres, urban and built-up, with 139,000, and miscellaneous nonfarm, with 790,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 22,600 acres in 1969 to 27,600 in 1981; during the same 12-year span, agricultural land declined from 88,900 to 74,700 acres. For the State as a whole, the Land Use Commission has zoned 156,000 acres as "urban," 1,975,000 as "conservation," 1,971,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 8.4 percent of all land, the State and counties own 30.4 percent, and private owners (chiefly large estates) have 61.3 percent. Total Federal holdings reported by the General Services Administration in 1982 came to 787,000 acres, exclusive of leased land (51,000 acres); most of the Federal land is in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 192,000 acres, divided among 3,077 lessees. Total land parcels in the State number 385,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 297,000 acres to 787,000. Statistics on military land use are likewise confusing, going as high as 207,000 acres and as low as 56,000.

Reports of the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, Department of Taxation, and Land Use Commission, and county planning departments provided the data for this section. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the Statistical Abstract of the United States: 1982-83.

Table 164. -- LAND AREA AND USE: 1977

[In thousands of acres.]

Land ownership and use	Area
All categories	4,112
Federally owned	337
Nonfederal	3,775
Available for agriculture use	2,821
Cropland	293
Pastureland	992
Rangeland	-
Forestland	1,443
Other	93
Unavailable for agriculture use	954
Urban and built-up	139
Rural transportation	18
Other nonfarm	790
Water	7
National Wilderness Preservation System 1/	142

1/ 1980 data. There were two such areas in the State in 1980.

Source: U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982 (1982), pp. 495-496, items 793-807 and 810-811.

Table 165.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1980 AND 1981

Subject	1980: Oahu total	1981		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	372,793	370,444	51,469	318,975
Single family	25,214	25,194	8,216	16,978
Multi-family	2,458	2,452	1,069	1,383
Industrial	6,818	6,818	2,962	3,856
Commercial	4,319	4,316	1,751	2,565
Hotel	239	231	119	112
Agriculture	74,856	74,744	308	74,436
Usable vacant	39,132	38,248	3,186	35,062
Other	219,757	218,441	33,858	184,583
STRUCTURES BY YEAR BUILT				
All structures	139,751	139,671	62,881	76,790
Before 1930	8,897	8,810	6,739	2,071
1930 to 1939	10,307	10,230	6,535	3,695
1940 to 1949	16,852	16,787	9,544	7,243
1950 to 1959	31,212	31,172	15,114	16,058
1960 to 1969	41,816	41,794	15,869	25,925
1970 to 1979	25,255	28,125	8,244	19,881
1980 and later		2,589	690	1,899
Not reported	5,412	164	146	18
DWELLING UNITS BY TYPE				
All dwelling units	238,521	239,061	139,221	99,840
Single family and duplex	127,079	126,996	54,770	72,226
Low density multi-family	10,436	10,715	1,007	9,708
High density multi-family	101,006	101,350	83,444	17,906

Source: City and County of Honolulu, Department of General Planning, records.

Table 166.-- LAND USE, FOR HAWAII COUNTY, 1982, AND MAUI AND KAUAI COUNTIES, 1972

[In acres.]

Land use	Hawaii County (1982)	Maui County (Spring 1972)			Kauai County (May 1972)	
		Maui and Kahoolawe	Lanai	Molokai	Kauai	Niihau
All uses 1/	2,520,363	490,232	89,072	168,258	357,978	47,088
Residential	12,824	17,292	256	2,963	5,968	9
Manufacturing	633	774	-	754	177	3
Mfg. services 2/	1,564	657	54	54	5,880	7
Commercial 3/	431	233	13	38	113	-
Services 4/	35,584	30,986	80	810	2,336	385
Social and cultural 5/ .	1,919	1,302	15	93	361	5
Recreation 6/	250,057	18,778	89	34	5,224	-
Agriculture	811,424	197,900	15,020	37,199	167,650	43,381
Transportation 7/	2,172	776	165	24	1,273	-
Unused open spaces 8/ ..	1,403,755	221,534	73,380	126,289	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii County Planning Department, Hawaii County Land Use Inventory, 1982 (parcel file data); Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974).

Table 167.-- LAND PARCELS, BY COUNTIES: 1982 AND 1983

[As of January 1.]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1982	379,831	197,402	43,955	117,193	21,281
1983	385,432	200,394	45,173	118,266	21,599

Source: City and County of Honolulu, Department of Finance, Property Technical Office, records.

Table 168.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: 1982

[As of February 26, 1982, for the City and County of Honolulu and March 1, 1982, for other counties. Based on land use classifications used for real property assessment purposes. This table corrects the figures in Data Book 1982, table 152.]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,048,969	370,952	767,330	2,510,529	400,158
Single family residential	103,390	64,585	8,866	23,313	6,626
Apartment	6,134	2,279	1,476	1,720	659
Commercial	4,932	2,715	650	1,130	437
Industrial	17,443	8,439	1,647	5,992	1,365
Agricultural	1,930,613	137,943	404,222	1,191,403	197,045
Conservation	1,951,400	145,399	328,875	1,284,900	192,226
Hotel and resort	1,130	188	378	114	450
Two or more family residential	33,933	9,403	21,216	1,961	1,353

Footnotes and source follow next table.

Table 169.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: MARCH 3, 1983

[Based on land use classifications used for real property assessment purposes.]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/, 3/ ...	3,998,698	370,446	750,556	2,509,032	368,664
Improved residential ...	58,755	38,068	5,933	10,323	4,431
Apartment	5,932	2,270	1,209	1,767	686
Commercial	4,955	2,659	639	1,212	445
Industrial	18,650	8,532	1,734	5,996	2,388
Agricultural 3/	1,908,890	136,751	406,092	1,190,447	175,600
Conservation 3/	1,940,379	146,987	328,361	1,284,970	180,061
Hotel and resort	1,420	210	777	308	125
Unimproved residential .	59,714	34,968	5,812	14,009	4,925

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement), 1981 supplement.

2/ Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of the Census.

3/ Apparent large decreases from figures for 1982 are unexplained.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 170.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1983

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August ...	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February .	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January ..	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January ..	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
1979: January ..	4,111,500.0	151,929.6	1,976,105.9	1,974,229.8	9,234.7
1980: January ..	4,111,500.0	152,199.2	1,975,865.1	1,974,195.5	9,240.3
1981: January ..	4,111,500.0	154,318.8	1,975,836.4	1,972,103.5	9,241.3
1982: January ..	4,111,500.0	154,725.8	1,975,672.2	1,971,886.0	9,216.0
1983: January ..	4,112,387.5	156,413.1	1,975,472.5	1,971,278.6	9,223.3

Footnotes and source follow next table.

Table 171.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1983

[See headnote of preceding table.]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,112,387.5	156,413.1	1,975,472.5	1,971,278.6	9,223.3
Hawaii	2,573,400.0	36,055.2	1,309,132.0	1,227,593.5	619.3
Maui	465,800.0	15,772.0	193,678.7	252,597.3	3,752.0
Kahoolawe	28,800.0	-	28,800.0	-	-
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,410.2	49,767.7	111,723.4	898.7
Oahu	386,187.5	87,893.6	154,859.8	143,434.1	-
Kauai	353,900.0	10,943.6	198,731.8	142,991.3	1,233.3
Niihau	45,700.0	-	-	45,700.0	-
Kaula and Lehua	400.0	-	400.0	-	-
Other islands 3/	1,900.0	-	1,900.0	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

3/ The Northwestern Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 9, 1983.

Table 172.-- LAND OWNERSHIP, BY ISLANDS: 1983

[In acres.]

Island	All land 1/	Land owned by government 2/			Privately owned land 3/
		Federal	State	Counties	
State total 4/	3,930,629	328,414	1,177,988	15,155	2,409,071
Percent	100.0	8.4	30.0	0.4	61.3
Hawaii	2,493,791	218,557	828,202	1,280	1,445,752
Maui	400,788	26,824	96,046	1,217	276,701
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,997	8	132	14	88,843
Molokai	170,153	133	47,330	248	122,441
Oahu	348,860	50,880	62,599	11,734	223,647
Kauai	352,004	2,937	143,423	662	204,982
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel, and no firm statement is possible.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Data exclude the Northwestern Hawaiian Islands.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 173.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1982

[In acres.]

Island	Survey date	All private land	Not leased	Leased 1/
State total	...	2,340,663	1,790,057	514,605
Hawaii	1982	1,293,718	943,853	349,865
Maui	1972	293,478	255,272	38,206
Kahoolawe	1972	-	-	-
Lanai	1972	88,892	88,882	10
Molokai	1972	126,764	104,089	22,674
Oahu	1978	249,501	165,727	83,774
Kauai	1972	205,605	185,529	20,076
Niihau	1972	46,705	46,705	-
Other islands 2/	1968	-	-	-

1/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

2/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Source: Hawaii County Planning Department, Hawaii County Land Use Inventory, 1982 (parcel file data); Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report: 1972 for Maui County (1974, pp. 25-26) and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

Table 174.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

[In acres.]

Lessee	Owner				
	All owners	Federal	State	City and County	Private
Total land ..	373,216	50,634	62,074	11,007	249,501
None	272,532	45,990	50,045	10,770	165,727
Federal	2,816	-	2,706	-	110
State	193	33	-	157	3
City and County ..	1,187	25	1,148	-	14
Private	96,488	4,586	8,175	80	83,647

Source: City and County of Honolulu, Department of General Planning, records.

Table 175.-- ACRES IN HAWAII OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964 TO 1982

[Some of these figures are not exact accountings of acres owned but are the landowners' best estimates.]

Landowner	1964	1980	1981	1982
Bernice P. Bishop Estate	369,700	341,764	341,546	341,512
Richard S. Smart (Parker Ranch) 1/	185,610	120,000	120,000	139,301
Castle and Cooke, Inc. 2/	154,759	150,370	150,198	149,976
C. Brewer and Company, Ltd.	145,147	98,491	98,604	96,700
Samuel M. Damon Estate 3/	143,842	121,659	121,659	121,659
Alexander and Baldwin, Inc.	122,788	94,100	95,300	95,300

1/ The total size of the Parker Ranch in 1981, including leased land, was 220,000 acres.

2/ Mililani Town acreage included through 1981 but excluded in 1982.

3/ Revised from Data Book 1982, table 158.

Source: Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 17; data for 1980 and later years supplied by landowners listed.

Table 176.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1980 TO 1982

Subject	Sept. 30, 1980	Sept. 30, 1981	Sept. 30, 1982
OWNED			
Number of installations	308	231	310
Land area, total (acres)	593,381.8	690,752.7	786,769.6
Urban	88,493.3	88,433.9	88,568.5
Rural	604,888.5	602,318.8	698,201.1
Number of buildings	14,888	13,769	14,627
Cost, total ($1,000) 1/	1,733,924	1,598,942	1,759,616
Land	231,852	76,379	76,879
Buildings	867,167	892,349	998,906
Structures and facilities	634,905	630,214	683,831
Predominant usage (acres):			
Agriculture and grazing	-	-	-
Forest and wildlife	255,620.2	255,620.2	255,620.2
Parks and historic sites	228,904.1	229,172.5	238,832.1
Power development and distribution	-	-	-
Reclamation and irrigation	-	-	-
Office building locations	54.6	53.3	54.8
Military, excluding airfields	121,883.0	119,036.0	207,185.1
Airfields	6,239.4	6,224.1	6,224.1
Harbor and port facilities	23.6	23.6	23.6
Flood control and navigation	1,480.8	1,460.9	1,457.5
Vacant	3.0	3.0	3.0
Institutional	359.5	359.5	358.0
Housing	84.2	84.2	84.2
Storage	836.0	836.0	833.1
Industrial	2,260.6	2,261.6	2,387.9
Research and development	7.7	7.7	7.7
Other land	75,625.1	75,610.1	73,698.3
LEASED			
Number of leases	251	237	275
Land area, total (acres)	51,250.9	50,064.4	50,527.7
Urban	216.1	147.2	219.6
Rural	51,034.8	49,917.2	50,308.1
Number of building locations	155	152	163
Floor area of buildings (sq. ft.)	320,100	299,771	308,839
Annual rental ($1,000)	1,489	1,675	1,882

Footnote and source on next page.

Table 176.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1980 TO 1982 -- Con.

1/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: General Services Administration, Summary Report on Real Property Owned by the United States Throughout the World (annual) and Summary Report on Real Property Leased to the United States Throughout the World (annual).

Table 177.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1982

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.]

Island	Acreage		Lessees		Applicant list	
	Total	In homestead use	Agricultural	Residential only	Agricultural	Residential
State total ..	191,540	26,062	443	2,634	1,013	6,535
Hawaii	110,550	17,504	175	594	689	1,211
Maui	29,005	17	-	89	41	504
Molokai	26,199	7,576	263	117	150	297
Oahu	7,116	419	2	1,647	7	4,106
Kauai	18,670	546	3	187	126	417

Source: 'Aina Ho'opulapula. Department of Hawaiian Home Lands Annual Report, 1981-82, pp. 5, 6, 7, 10, and 12.

Table 178.-- STATE PUBLIC LAND INVENTORY, BY COUNTIES: SEPTEMBER 30, 1982

[In thousands of acres. These State Government owned lands exclude some land owned by the following State agencies: the Department of Hawaiian Home Lands, the Hawaii Housing Authority, the Department of Transportation, and the University of Hawaii.]

Type of document authorizing use	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,199.9	57.1	152.8	853.0	136.9
General lease 1/	252.3	5.9	20.0	200.0	26.6
Revocable permit 2/	90.0	2.5	13.6	63.6	10.4
Executive order 3/	47.4	10.3	5.6	18.9	12.6
Executive order for forest reserves	106.5	0.3	3.7	98.2	4.2
Governor proclamation for forest reserves	624.5	32.3	104.1	408.4	79.7
Other parcels in use 4/ ..	2.1	0.5	0.7	0.8	0.2
Unencumbered 5/	77.2	5.4	5.1	63.3	3.3

1/ Long-term leases. Mostly agricultural and pasture land.

2/ Month-to-month leases. Mostly agricultural and pasture land.

3/ Used for State and County Government facilities such as parks, schools, harbors, airports, baseyards and office buildings.

4/ Parcels used by the public for which no document has been issued, such as roadways, school lots, cemeteries and walkways. Also includes unresearched encumbrances such as homestead leases.

5/ Parcels with no documents on them and not in use.

Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, the performing arts, pets and parks appear in this section. Information on recreational land use is given in Section 6; on transportation, in Section 18; on hotels, in Section 23.

Approximately 4,243,000 visitors stayed overnight or longer in Hawaii during 1982, compared with 1,747,000 in 1970 and only 297,000 in 1960. The average number present at any given time during 1982 was 105,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1982 amounted to $3.7 billion, compared with $840 million a decade earlier. The 1982 visitor total included 2.6 million from other States, 303,000 from Canada, and 715,000 from Japan. Expenditures per visitor day in 1980 averaged $71.24 for westbound visitors and $185 for the Japanese. Visitor-related spending in 1982 resulted in tax revenues of $448 million and generated 161,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven National parks and similar areas, 72 State parks, 627 County parks, 57 golf courses, 249 public tennis courts, 1,989 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include four National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, Castle Park, and the Honolulu Zoo. Total visits to 45 museums, state monuments and similar attractions in 1982 numbered 13 million. About 290,000 Hawaii residents traveled to the Mainland in 1982. Twelve theatrical groups on Oahu reported 1,300 performances of 500 productions for the 1981-1982 season, with a combined audience of 805,000. During the same period, the Honolulu Symphony Orchestra gave 109 concerts, with a total attendance of 169,000. Professional baseball drew 139,000 fans in 1982, and during the 1982-1983 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 459,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau, the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. A compilation of statistics on recreational facilities and behavior was issued by the Hawaii State Department of Land and Natural Resources in 1980 in its *State Recreation Plan, Technical Reference Document*. Long-term trends are summarized in *Historical Statistics of Hawaii*, Section 11. National statistics are given in Section 8 of *Statistical Abstract of the United States: 1982-83*.

Table 179.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1972 TO 1982

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1972	3,053,557	3,013,488	40,069	2,308,712	744,845
1973	3,624,667	3,598,312	26,355	2,696,415	928,252
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978	4,784,561	4,776,977	7,584	3,664,351	1,120,210
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292
1980	5,380,383	5,380,383	-	3,861,059	1,519,324
1981	5,305,809	5,305,809	-	3,780,383	1,525,426
1982	5,580,242	5,580,242	-	4,078,360	1,501,882

Source: Hawaii Visitors Bureau, 1982 Annual Research Report.

Table 180.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1972 TO 1982

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents	Unclassified
			Overnight or longer	Transits			
1972	2,308,712	1,540,268	242,469	309,595	171,772	44,388	220
1973 ...	2,696,415	1,815,443	252,418	396,508	194,974	36,886	186
1974	2,802,465	1,899,632	284,988	426,507	154,154	37,007	177
1975	2,806,524	1,935,396	272,021	381,419	178,040	39,233	415
1976	3,205,779	2,245,252	306,349	426,666	186,684	40,690	138
1977	3,434,979	2,453,541	309,771	448,521	179,298	43,617	231
1978 1/ .	3,664,351	2,698,831	332,168	436,942	156,901	39,476	33
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559	-
1980 1/ .	3,861,059	2,718,863	327,269	603,206	197,799	13,922	-
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134	-
1982	4,078,360	2,896,253	382,266	488,733	290,040	21,068	-

1/ Decline in returning and intended residents probably reflects increased nonresponse rates resulting from revised questionnaire format used from July 1978 to July 1979.

Source: Hawaii Visitors Bureau, 1982 Annual Research Report.

Table 181.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1982

Year	Visitors staying overnight or longer			Average number present		
	Total	West-bound 1/	Other	Total	West-bound 1/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981 2/ .	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,916	3,278,519	964,397	105,021	94,452	10,569

1/ Arriving from the Mainland United States or Canada.
2/ Revised from *Data Book 1982*, table 163.
Source: Hawaii Visitors Bureau, *Annual Research Report* (annual) and records.

Table 182.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1979 TO 1982

[In thousands. Data for 1979 and 1980 revised from 1981 edition, table 148.]

Place of residence	1979	1980	1981	1982
Total	3,960.0	3,935.0	3,935.0	4,243.0
United States	2,560.0	2,456.0	2,314.0	2,600.0
Foreign	1,400.0	1,479.0	1,621.0	1,643.0
Asia	747.8	817.5	878.0	897.0
Japan	653.6	658.1	690.4	715.0
Other Asia	94.2	159.4	187.6	182.0
Canada	348.6	331.8	291.0	303.0
Europe	67.0	80.2	169.0	115.0
Germany	16.4	17.6	28.9	30.0
United Kingdom	29.6	46.9	96.2	77.3
Other Europe	21.0	15.7	43.9	7.7
Oceania and South Pacific	216.2	230.1	252.0	301.0
Australia	159.6	164.1	171.9	220.0
New Zealand	45.8	57.3	68.5	75.0
Other South Pacific	10.8	8.7	11.6	6.0
South America	16.9	14.9	28.0	(NA)
Other foreign	3.5	4.5	3.0	27.0

NA Not available.
Source: Hawaii Visitors Bureau, data supplied May 20, 1983.

Table 183.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES: 1970 TO 1982

Year	Westbound visitor arrivals 1/			Average visitor census, including eastbound and northbound			
	Hawaii County	Kauai County	Maui County	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1970 ...	445,401	410,075	447,985	26,699	3,588	3,011	3,645
1971 ...	522,166	472,663	554,799	28,323	4,349	3,535	4,682
1972 ...	637,562	565,386	710,050	34,707	5,153	4,136	6,147
1973 ...	694,170	590,475	766,791	43,341	5,477	4,206	6,554
1974 ...	742,839	601,703	852,201	45,486	6,024	4,484	7,541
1975 ...	769,779	632,821	931,863	46,140	6,496	4,941	8,731
1976 ...	816,514	699,275	1,110,726	52,683	6,782	5,445	10,622
1977 ...	839,008	740,501	1,257,142	57,342	7,195	6,025	12,468
1978 ...	908,983	837,712	1,403,054	62,379	8,094	7,069	14,492
1979 ...	860,940	825,366	1,419,773	67,688	7,996	7,394	15,598
1980 ...	761,103	781,409	1,378,189	66,680	7,195	7,259	15,363
1981 2/	672,683	757,811	1,389,892	66,455	6,561	7,225	15,727
1982 ...	703,901	760,549	1,608,222	71,956	6,981	7,314	18,770

1/ Because many visitors visit more than one island, county data sum to total greater than the State total shown in another table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers. Not separately available for the City and County of Honolulu.

2/ Revised from Data Book 1982, table 166.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 184.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1972 TO 1982

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1972 8/	41.8	27.2	801	44.7	58.9	1.71
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82
1982	44.4	29.7	789	39.1	61.5	1.82

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1972	29.2	35.1	77.4	89.0	10.9	61.5
1973	30.2	34.3	78.3	89.3	10.7	58.8
1974	28.6	37.3	78.2	91.4	10.7	62.0
1975	28.6	39.7	76.4	91.7	10.8	66.0
1976	28.3	38.7	79.0	93.4	10.7	65.6
1977	27.3	41.1	78.6	89.8	10.9	66.8
1978	26.7	42.8	76.5	83.0	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980 8/	28.6	48.4	75.4	71.2	11.2	68.3
1981 8/	28.4	47.2	77.7	70.1	11.3	69.3
1982	27.9	45.9	80.4	64.6	11.2	69.7

Footnotes and source on next page.

Table 184.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1972 TO 1982 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Includes condominiums operating as hotels through June 1978 but excludes such facilities thereafter.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

8/ Revised from Data Book 1982, table 167.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 185.-- DESTINATION OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981 AND 1982

[Data limited to visitors staying overnight or longer.]

Destination	1981 1/	1982
Visitors to and beyond Hawaii	2,974,791	3,278,519
Destined to Hawaii	2,611,142	2,896,253
Destined beyond Hawaii	363,649	382,266
Around the World	18,897	19,365
Australia	116,364	144,375
New Zealand	45,444	44,420
Other Pacific	16,525	17,381
Japan	100,216	88,906
Hong Kong	15,977	15,366
Philippines	6,589	6,856
Other Asia	43,637	45,597

1/ Revised from Data Book 1982, table 165.

Source: Hawaii Visitors Bureau, 1982 Annual Research Report.

Table 186.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981 AND 1982

[Data limited to visitors staying overnight or longer.]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1981 1/	1982	1981 1/	1982
All visitors	2,611,142	2,896,253	363,649	382,266
Age:				
Under 10 years	69,341	81,391	22,379	28,176
10 to 19 years	218,862	225,689	30,103	36,131
20 to 29 years	489,673	588,783	87,057	85,868
30 to 39 years	517,328	607,234	84,859	90,030
40 to 49 years	460,112	501,832	60,682	62,514
50 to 59 years	473,213	476,604	48,527	47,697
60 years and over	382,613	414,720	30,042	31,850
Age not reported	126,704	157,018	29,483	29,704
Sex:				
Male	1,168,436	1,277,068	203,717	209,020
Female	1,442,706	1,619,185	159,932	173,246
Intended length of stay:				
2 days	238,778	253,429	35,599	35,393
3 days			83,766	81,748
4 to 6 days			166,072	176,205
7 to 12 days	1,578,129	1,796,991	61,912	71,257
13 to 18 days	601,530	643,230	16,300	17,663
19 to 24 days	107,807	115,005		
25 to 30 days	45,613	43,352		
31 to 60 days	36,833	40,108		
61 to 90 days	1,793	3,601		
91 to 365 days	659	537		
Residence: 2/				
Pacific	1,020,897	1,089,999	16,879	13,711
Alaska	20,886	25,200	291	505
California	790,801	858,814	13,004	10,498
Oregon	68,519	67,250	767	714
Washington	140,691	138,735	2,817	1,994
Mountain	175,694	195,986	3,468	2,653
West North Central	129,099	157,738	2,090	1,961
West South Central	199,273	198,688	4,720	4,252
East North Central	253,635	286,499	5,748	4,792
East South Central	41,900	45,223	1,091	1,150

Continued on next page.

Table 186.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1981 AND 1982 — Con.

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1981 1/	1982	1981 1/	1982
Residence -- con. 2/				
New England	67,120	82,873	2,663	2,265
Middle Atlantic	199,399	300,364	8,018	6,883
South Atlantic	140,756	158,622	6,398	6,514
Guam, Puerto Rico, Virgin Isl..	153	135	2,400	3,313
Canada	251,946	263,325	4,832	5,710
Other foreign	131,270	116,801	305,342	329,062
Residence not reported	17,833	72,373	1,481	3,293
Purpose of trip:				
Pleasure	2,028,499	2,327,673	297,230	319,926
Business	67,333	62,271	17,128	14,243
Business and pleasure	319,030	328,862	30,078	28,561
Government and military	11,983	12,411	5,527	5,251
Visiting relatives	77,405	83,189	6,764	7,015
Attend school	2,242	2,252	346	320
Convention	96,528	70,635	2,527	2,208
Other	8,122	8,960	4,049	4,742
Purpose not reported	18,041	21,505	5,480	5,681
Traveler status:				
Organized tour group	594,032	570,009	91,164	81,938
Individual basis	1,914,140	2,186,097	261,631	289,306
Incentive	90,972	127,704	5,348	5,776
Government/military	11,998	12,443	5,506	5,246
No answer	20,035	29,747	3,433	4,493
Intended accommodations:				
Hotel	1,831,479	1,869,933	308,717	322,405
Condominium	485,230	516,716	28,838	30,901
Hotel and condominium	(NA)	255,008	(NA)	20,003
Friend's or relative's home ..	245,540	52,593	19,917	6,245
Other accommodations	48,893	202,003	6,177	2,712
Not reported	20,235	19,271	2,736	1,852
Visitor days (1,000)	29,440	32,481	1,937	2,099

1/ Revised from Data Book 1982, table 168.
2/ Census divisions. For composition, see source, table 12.
Source: Hawaii Visitors Bureau, 1982 Annual Research Report.

Table 187.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1981 AND 1982

[Data limited to visitors staying overnight or longer.]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1981 1/	1982	1981 1/	1982
All party heads	1,437,646	1,588,004	226,268	230,236
Occupation:				
Professional and technical ...	503,954	572,542	70,258	73,329
Business, managerial, official	374,179	403,367	73,510	72,055
Clerical, office, sales	146,099	166,381	18,334	20,175
Military service	14,139	15,665	4,196	4,111
Other employed	108,743	119,271	15,072	15,588
Military dependent	2,437	2,336	364	427
Retired	170,393	183,328	13,774	14,904
Student	68,372	70,589	19,780	18,935
Other non-employed	49,330	54,525	10,980	10,712
Not reported	24,257	28,311	6,047	5,757
Trips to Hawaii:				
First trip	759,601	859,782	128,634	130,530
Second trip	263,641	286,763	42,407	42,330
Third trip	125,150	137,653	16,022	17,821
Fourth trip and over	289,254	303,806	39,205	39,555
Not reported	89,822	101,271	23,481	22,486
Persons in party:				
1 person	292,259	318,919	90,589	83,758
2 persons	831,175	916,929	72,347	70,715
3 persons	119,267	131,915	17,830	20,648
4 persons	125,578	136,680	27,385	34,733
5 persons or more	69,367	83,576	18,117	20,384
Average size	1.82	1.82	1.58	1.48

1/ Revised from Data Book 1982, p. 194.
Source: Hawaii Visitors Bureau, 1982 Annual Research Report.

Table 188.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1979 TO 1982

Subject	1979	1980	1981	1982
Number of respondents in sample	5,353	5,180	4,984	5,810
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under $15,000	14.0	10.3	7.5	6.0
$15,000 to $24,999	23.5	19.4	16.6	16.3
$25,000 to $34,999	26.2	24.1	22.2	21.7
$35,000 to $49,999	19.2	24.0	24.8	24.4
$50,000 and over	17.1	22.2	28.9	31.6
Median income (dollars)	29,800	33,400	37,300	38,700
Education: college graduates (percent)	53.6	54.5	57.6	56.0
Using travel agent (percent)	84.1	79.6	79.0	78.7
Islands visited (percent):				
Oahu only	24.6	26.6	27.2	29.2
Hawaii	34.3	30.2	24.5	22.7
Maui	56.8	53.4	54.0	52.7
Kauai	35.9	34.6	33.0	27.3
Molokai	0.6	0.6	0.6	0.5
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	35.2	35.2	37.0	37.9
Above average	53.7	54.2	53.9	53.3
Average	9.9	9.4	8.3	7.8
Below average	1.1	1.0	0.7	0.8
Quite inferior	0.1	0.1	0.2	0.1

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 189.-- MEETINGS AND CONVENTIONS: 1978 TO 1982

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1978	536	230,273	106,963	113,135
1979	574	178,753	88,481	94,049
1980	546	230,891	104,045	141,544
1981	505	181,662	84,142	134,164
1982	439	167,558	78,589	123,748

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 190.-- AVERAGE EXPENDITURE PER VISITOR DAY, FOR THE STATE AND OAHU: 1931-1932 TO 1980

[In dollars.]

Years surveyed	Westbound visitors		Visitors from Japan: Statewide
	Statewide	Oahu only	
1931-1932	(NA)	17.50	(NA)
1951	28.00	(NA)	(NA)
1960-1961	32.00	(NA)	(NA)
1965-1966	(NA)	37.23	(NA)
1974	46.20	46.75	123.00
1977	54.62	54.17	146.85
1980	71.24	69.24	185.00

NA Not available.

Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), p. 31.

Table 191.-- VISITOR EXPENDITURES, BY ORIGIN OF VISITOR AND TYPE OF EXPENDITURE: 1980

[Excludes transpacific travel costs.]

Item	Aggregate expenditures (millions of dollars)			Expenditures per visitor day (dollars)	
	All visitors	Non-Japanese	Japanese 1/	Non-Japanese	Japanese 1/
All items	2,874.8	2,347.6	527.2	71.24	185.00
Food and beverage	735.2	628.1	107.1	19.06	37.55
Restaurants 2/	...	436.3	...	13.24	35.89
Nightclubs	...	64.9	...	1.97	1.66
Dinner shows	...	54.1	...	1.64	...
Groceries	...	72.8	...	2.21	...
Entertainment	132.0	110.4	21.6	3.35	7.59
Attractions	...	74.5	...	2.26	...
Other	...	35.9	...	1.09	...
Transportation	324.4	254.7	69.7	7.73	24.46
Ground transportation 3/ ...	...	40.5	...	1.23	2.96
U-drive	...	100.8	...	3.06	...
Interisland travel	...	84.4	...	2.56	21.50
Sightseeing tours	...	29.0	...	0.88	...
Clothing	212.8	179.6	33.2	5.43	11.66
Gifts and souvenirs	391.7	201.4	190.3	6.11	66.78
Lodging	879.3	813.3	66.0	24.68	23.17
All other	156.9	117.6	39.3	3.57	13.79
Adjustment 4/	42.5	42.5	-	1.29	-

1/ Detail for sub-items not available in all cases.
2/ For Japanese visitors, refers to total expenditures for food.
3/ For Japanese visitors, refers to total transportation expenditures excluding interisland travel.
4/ Estimated amount of underreporting for listed categories.
Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), pp. 4, 34, and 37.

Table 192.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1972 TO 1982

[In millions of dollars. Excludes expenditures by Hawaii residents.]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,146	1,569	577.0	152.9	137.9	286.9
1979	2,537	1,867	669.8	162.0	159.2	348.7
1980 2/....	2,875	2,097	777.5	187.6	189.3	400.6
1981 2/ ...	3,200	2,394	805.9	179.2	197.3	429.4
1982 3/ ...	3,700	2,713	987.5	208.5	218.4	560.6

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Revised from Data Book 1982, table 174.

3/ Preliminary estimate.

Source: Hawaii Visitors Bureau, data provided May 3, 1983.

Table 193.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1970 TO 1982

[In millions of dollars. Revised from Data Book 1982, table 175.]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1970	714.6	595.0	8.0	111.6
1971	835.8	705.0	8.0	122.8
1972	982.2	840.0	9.0	133.2
1973	1,181.6	1,020.0	8.0	153.6
1974	1,408.6	1,225.0	12.6	171.0
1975	1,559.4	1,360.0	8.4	191.0
1976	1,890.8	1,640.0	6.8	244.0
1977	2,093.8	1,845.0	7.8	241.0
1978	2,427.4	2,146.0	11.4	270.0
1979	2,947.7	2,537.0	11.6	399.1
1980	3,406.2	2,875.0	13.2	518.0
1981	3,775.0	3,200.0	15.0	560.0
1982	4,235.0	3,700.0	15.0	520.0

1/ Includes payroll, fuel taxes, and landing fees.
Source follows next table.

Table 194.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1982

[In millions of dollars and thousands of jobs. Revised from *Data Book 1982*, table 176.]

Year	Visitor-related expenditures	Total sales or output 1/	Household income	Tax revenues	Jobs 1/
1970	714.6	1,318.1	469.1	72.4	71.0
1971	835.8	1,538.6	549.5	86.1	80.8
1972	982.2	1,806.0	647.3	100.8	88.2
1973	1,181.6	2,175.4	782.2	127.4	96.3
1974	1,408.6	2,582.7	932.0	151.1	109.7
1975	1,559.4	2,815.2	1,017.5	180.7	110.9
1976	1,890.8	3,332.9	1,206.8	217.9	120.2
1977	2,093.8	3,699.7	1,341.8	229.6	125.2
1978	2,427.4	4,322.3	1,568.6	268.9	133.2
1979	2,947.7	5,145.8	1,867.0	328.9	143.3
1980	3,406.2	5,868.4	2,130.8	377.1	148.7
1981	3,775.0	6,450.0	2,340.0	415.0	149.5
1982	4,235.0	7,310.0	2,660.0	448.0	161.1

1/ Direct, indirect, and induced.

Source: Hawaii State Department of Planning and Economic Development, *The Economic Impact of Tourism in Hawaii: 1970 to 1980*, Research Report 1983-2 (April 1983), and unpublished 1981 and 1982 estimates based on the DPED Input-Output Model.

Table 195.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1981 AND 1982

[In millions of dollars and thousands of jobs.]

Year and industry	Direct visitor-related expenditures 1/	Total sales or output 2/	Total household income	Jobs	
				Total 3/	Direct only
1981 4/					
All industries 4/	3,775.0	6,445.5	2,343.7	149.5	82.2
Agriculture	28.7	63.6	28.3	0.6	0.3
Textile and apparel mfg.	30.8	54.5	18.9	1.5	0.9
Other manufacturing	97.2	190.3	50.5	3.8	1.2
Air transportation	499.3	878.8	284.6	13.4	6.0
Other transportation	141.8	292.1	111.9	5.8	2.9
Wholesale trade 5/	83.9	176.7	76.1	4.5	2.2
Eating and drinking places ...	733.7	1,431.1	431.0	37.1	21.6
Other retail trade 5/	308.8	665.3	307.7	23.4	15.3
Hotel services and real estate	1,007.5	2,248.7	856.6	45.8	23.7
Other services	215.1	444.4	178.1	13.6	8.1
Imports	628.2	...	...	...	...
1982					
All industries	4,235.0	7,310.7	2,663.7	161.1	88.9
Agriculture	33.2	73.5	32.7	0.7	0.3
Textile and apparel mfg.	35.6	63.0	21.8	1.6	1.0
Other manufacturing	112.3	219.9	58.4	4.0	1.3
Air transportation	499.0	878.2	284.4	12.6	5.6
Other transportation	163.9	337.5	129.3	6.1	3.1
Wholesale trade 5/	96.9	204.2	87.9	4.8	2.3
Eating and drinking places ...	847.8	1,653.7	498.0	42.6	24.8
Other retail trade 5/	356.8	768.8	355.6	25.3	16.5
Hotel services and real estate	1,164.2	2,598.4	989.8	48.5	25.2
Other services	248.6	513.5	205.8	14.8	8.8
Imports	676.7	...	...	...	...

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Revised from Data Book 1982, table 177.

5/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Planning and Economic Development, unpublished 1981 and 1982 estimates based on the DPED Input-Output Model.

Table 196.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1972 TO 1983

[In dollars.]

Year ending June 30	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1972	2,247,494	1,689,261	535,918	22,315	2,245,724
1973	2,280,231	1,687,908	568,817	23,506	2,243,808
1974	2,289,946	1,692,963	557,706	39,277	2,259,602
1975	2,272,313	1,687,696	554,424	30,193	2,291,405
1976	2,466,570	1,798,452	629,418	38,700	2,473,050
1977	2,743,622	1,912,238	663,289	168,095	2,743,610
1978	2,908,365	1,975,360	735,962	197,043	2,902,134
1979	3,071,748	2,062,036	790,033	219,679	3,003,599
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	(NA)	2,111,000	(NA)	(NA)	(NA)

NA Not available.

1/ Data for 1972-1982 are net after any refunds to the State.

2/ May include income from mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, Financial Statements and Schedules (annual), and records.

Table 197.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks.]

Characteristics	Number
Total round-trips by adults for vacations outside Hawaii, 1979	355,000
Percent of all adults —	
Vacationing outside Hawaii in 1979	35.2
Last vacation outside Hawaii was before 1979	39.8
Never vacationed outside Hawaii	25.0
Percent of all households --	
Traveling outside Hawaii for any purpose in 1979	45.2
Traveling outside Hawaii for vacations in 1979	41.0
Percent of all adults vacationing in 1979 in -- 1/	
California	21.2
Nevada	12.0
Alaska	0.4
Pacific Northwest	3.8
Southwest States	1.0
Rocky Mountain States	2.0
Central States	3.8
Southern States	3.2
Eastern States	4.4
Canada	2.0
Mexico	0.8
Caribbean	0.4
South America	0.0
Pacific Islands	0.2
Australia/New Zealand	0.6
Japan	1.6
Philippines	1.4
China, Korea	0.8
Southeast Asia	0.6
Indian Subcontinent	0.2
Middle East	0.4
Africa	0.0
Europe	1.4

Continued on next page.

Table 197.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979 -- Con.

Characteristics	Number
Average size of vacation parties in 1979	2.08
Persons under 18 years of age	0.40
Persons 18 years old and over	1.68
Length of vacation trips in 1979 (nights): 2/	
Median	12.8
Mean	17.2
Average household expenditure per vacation trip in 1979 (dollars), all categories 3/	2,051
Airfare	732
Other transportation	116
Food and drink	309
Hotel or other lodging	163
All other expenses	510

1/ Respondents could name more than one destination per trip.

2/ Includes time spent for nonvacation purposes.

3/ Includes data for households unable to provide breakdowns by category; detail will thus fail to add exactly to indicated total.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980), pp. viii, 13, 15, 24, 31, 40, and 46.

Table 198.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1981

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1961 2/ ...	41,450	86.0	32.9	125.9	1.35
1967	130,995	89.4	...	...	1.24
1972	171,772	87.5	...	...	1.36
1977	179,298	84.9	...	...	1.39
1979 3/ ...	130,914	85.0	36.7	103.2	1.40
1980	197,799	85.2	37.9	100.8	1.42
1981	230,728	83.8	37.3	101.6	1.44

Year	High-status occupations: 4/ percent of--		Days absent 5/		Average number absent 5/
	All party heads	Employed civilians	Median	Mean	
1961 2/ ...	44.9	72.2	23.7	49.6	5,200
1967	...	...	18.4	45.9	14,800
1972	...	...	13.8	25.3	11,900
1977	...	...	13.5	20.6	10,100
1979 3/ ...	50.9	75.6	11.7	18.1	6,500
1980	54.8	78.0	11.6	17.0	9,200
1981	54.5	78.7	13.3	17.3	10,900

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Year ended June 30.

3/ Data on number returning and average number absent appear to be greatly understated.

4/ Party heads reporting professional, technical, business, managerial, and official occupations.

5/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1981 (Statistical Report 155, May 15, 1982), table 2.

Table 199.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1978 TO 1981

Passport category and first area destination	1978	1979	1980	1981
Issued by Honolulu Passport Agency 1/ ..	28,533	28,974	31,928	34,191
Issued to Hawaii residents, total 2/ ...	28,280	26,170	28,800	31,700
Europe	11,280	8,470	9,730	10,970
Mid East	330	260	430	510
Far East	9,980	9,580	10,190	10,980
North, Central, and South America	1,030	820	1,000	940
Africa	200	60	120	100
Australia and Oceania	5,460	6,980	7,320	8,200
World tour	-	-	10	-

1/ Includes passports issued to persons not residing in Hawaii.
2/ Includes passports issued by offices not in Hawaii.
Source: U.S. Department of State, Bureau of Consular Affairs, Summary of Passport Statistics (January 1981) and information supplied June 11, 1981 and October 12, 1982.

Table 200.-- HONOLULU SYMPHONY ORCHESTRA: 1974-1975 TO 1981-1982

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1974-1975	80	135	198,000	1,423,911
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082
1981-1982	80	109	168,900	2,627,293

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1981-1982 (Statistical Memorandum 83-1, January 3, 1983).

Table 201.-- PERFORMING ARTS, FOR OAHU: 1981-1982 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups 1/	500	1,300	804,647
Brigham Young Univ.-Hawaii Campus	13	18	14,051
Chaminade University of Honolulu	2	16	2,800
Hawaii Loa College	2	8	800
Hawaii Performing Arts Company, total	10	189	20,467
Mainstage season	7	175	19,404
Studio Series season	3	14	1,063
Honolulu Community Theatre	8	105	46,948
Honolulu Dept. of Auditoriums, total	92	153	380,324
Ballets	4	15	27,290
Concerts	31	59	100,049
Operas	3	9	17,518
Rock shows	14	18	112,420
Other dramatic and musical productions	40	52	123,047
Honolulu Theatre for Youth	6	261	111,059
Leeward Community College, total	52	142	57,843
Dance	12	20	7,245
Music	19	22	8,265
Drama: Hon. Theatre for Youth 2/	2	67	34,852
Other	4	13	2,065
Miscellaneous	15	20	5,416
U.S. Army Support Command Hawaii, total	289	320	155,025
Plays and musicals	7	38	7,200
Showmobile activities	26	26	32,760
Hulas and Hawaiiana	154	154	15,000
Variety entertainment	102	102	100,065
University of Hawaii at Manoa, total	22	129	47,522
On campus	19	123	46,997
Off campus	3	6	525
Windward Community College	2	3	260
Windward Theater Guild	4	23	2,400

1/ Unduplicated totals.
2/ Also included in HTY totals.
Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1981-1982 (Statistical Memorandum 83-1, January 3, 1983).

Table 202.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1980 TO 1982

Island and cultural attraction	1980	1981 (revised)	1982
State total	11,014,193	11,409,205	13,026,558
Oahu	8,489,121	8,833,792	10,422,599
Bernice P. Bishop Museum 1/	270,207	212,071	220,325
Exhibition halls	166,466	152,474	169,584
Planetarium	76,134	38,422	32,735
Falls of Clyde Maritime Museum	27,607	21,175	18,006
Castle Park 2/	700,000	1,260,000	1,150,000
Contemporary Arts Center	25,700	29,500	30,000
Damien Museum and Archives	2,885	2,980	4,569
Foster Botanic Garden	109,502	130,753	125,442
Fred Ohrt Museum 3/	3,519	3,438	5,506
Honolulu Academy of Arts	166,465	205,969	218,442
Iolani Palace State Monument 1/	67,000	53,000	56,000
Ho'omaluhia Park 4/	-	-	121,297
Kahuku Sugar Mill 5/	103,000	-	-
Kamehameha V Post Office 1/	(NA)	2,000	8,000
Mission Houses Museum 6/	22,820	23,800	24,080
Mormon Temple Grounds 7/	274,977	289,138	298,848
National Memorial Cemetery of the Pacific	2,594,934	2,605,818	3,866,100
Pacific Submarine Museum	53,903	60,287	68,344
Paradise Park	300,000	310,000	303,000
Polynesian Cultural Center	986,000	892,000	950,000
Puu O Mahuka State Monument 1/	(NA)	2,000	3,000
Queen Emma Summer Palace	17,562	15,556	16,820
Royal Mausoleum State Monument 1/	86,000	45,000	77,000
Sea Life Park 8/	624,188	566,427	579,584
Tennent Art Foundation Gallery	(NA)	2,500-3,000	3,000
Tropic Lightning Historical Center 9/	3,645	3,800	15,600
Ulu Po Heiau State Monument 1/	(NA)	1,000	1,000
U.S. Army Museum, Ft. DeRussy	150,161	133,067	105,710
U.S.S. Arizona Memorial 10/	1,205,677	1,255,171	1,440,582
By Navy boats	761,009	876,313	1,148,561
By civilian boats	444,668	378,858	292,021
Wahiawa Botanic Garden 11/	53,304	54,574	35,309
Waikiki Aquarium	246,707	267,830	250,776
Waimea Falls Park	420,965	405,863	444,265
Hawaii	1,995,208	2,014,714	1,921,694
Hulihee Palace	20,105	18,512	18,907
Kamuela Museum	(NA)	10,020	10,447
Kilauea Visitor Center	1,894,000	1,895,000	(12/)
Lapakahi State Park 1/	52,000	55,000	50,000
Lyman House Memorial Museum	25,103	22,182	17,340
Mookini Heiau 1/	4,000	14,000	(NA)

Continued on next page.

Table 202.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1980 TO 1982 -- Con.

Island and cultural attraction	1980	1981 (revised)	1982
Maui	107,177	127,646	129,082
Baldwin Home Museum	30,575	32,311	37,262
Brig Carthaginian 13/	32,204	45,833	38,562
Hale Hoikeike	7,398	7,502	8,958
Halekii-Pihana State Monument 1/	37,000	42,000	44,000
Hale Pa'i 14/	-	-	300
Kauai	412,264	433,053	547,800
Grove Farm Homestead 15/	900	4,237	3,789
Hanalei Museum 11/	7,000	3,800	6,000
Kauai Museum 16/	27,642	27,602	24,529
Kokee Natural History Museum 11/	84,397	61,920	57,981
Russian Fort State Monument 1/	287,000	329,000	451,000
Waioli Mission House	5,325	6,494	4,501
Molokai	10,423	8,500	5,383
Kalaupapa Settlement	10,423	8,500	5,383

NA Not available.
1/ Years ended June 30.
2/ Opened end of June 1980.
3/ Closed Sept.-Dec. 1981 for renovation.
4/ Opened March 4, 1982.
5/ Closed December 31, 1980.
6/ 1980 figure is for year ended September 30; 1981 and 1982 figures for years ended June 30.
7/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitors' Center.
8/ Years beginning March 1.
9/ Figure for 1982 may not be comparable to earlier years.
10/ All persons visiting either the Memorial or the Visitor Center, including all non-landing tour boat passengers. 1981 data are revisions.
11/ Closed Nov. 23-Dec. 31, 1982, because of hurricane damage.
12/ Estimated at 1,750,000 to 1,900,000.
13/ Reopened April 1980, after 8-year restoration.
14/ Reopened Dec. 17, 1982, after two-year restoration.
15/ Opened October 1, 1980.
16/ Years ended September 30.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1982 (Statistical Memorandum 83-5, May 11, 1983).

Table 203.-- CHARACTERISTICS OF NON-PROFIT ARTS AND CULTURAL ORGANIZATIONS: 1982

Subject	Amount
Number surveyed	144
Attendance (1,000)	3,051
Paid admissions	1,452
Unpaid admissions	1,599
Income ($1,000)	16,846
Admissions, concessions, and other earned income	6,625
Government funds	4,249
Contributions by foundations, businesses, and individuals	2,677
Investment (endowments)	3,296
Expenditures ($1,000)	19,074
Wages and salaries	8,542
Fringe benefits	1,102
Purchased goods and services	8,545
Other operating expenses	885
Volunteer hours donated	515
Equivalent wages ($1,000)	5,550

Source: Arts Council of Hawaii, The Economic Impact of Hawaii's Non-Profit Arts and Cultural Organizations 1982 (1982).

Table 204.-- MUSEUMS, ART GALLERIES, BOTANICAL, ZOOLOGICAL GARDENS: 1977

[Data limited to tax-exempt establishments with payroll.]

Subject	Total	Commercial	Noncommercial
Number of establishments	24	4	20
Revenue, total ($1,000)	5,536	477	5,059
Admissions	378	6	372
Govt. or private contributions	2,927	-	2,927
All other sources	2,231	471	1,760
Expenses, total ($1,000)	5,808	486	5,322

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 19.

Table 205.-- ZOOS: 1981 AND 1982

Zoo	Animal and bird inventory 1/				Attendance	
	Species		Individuals			
	1981	1982	1981	1982	1981	1982
Coco Palms (Kauai)	6	6	46	48	6,043	4,652
Honolulu Zoo 2/	361	317	1,602	1,215	1,000,918	1,104,351
Maui Zoological and Botanical Gardens	43	46	144	120	75,000-80,000	85,000
Panaewa Rainforest Zoo (Hilo)	53	51	145	154	32,285	41,140

1/ As of December 31.
2/ Revised from Data Book 1982, table 187.
Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel and the departments of parks and recreation of the City and County of Honolulu and Counties of Hawaii and Maui.

Table 206.-- RECREATION RESOURCES AND FACILITIES AND RELATED OPEN SPACE ACREAGE: 1975 AND 1980

Category	State totals		Counties: 1980			
	1975	1980	Honolulu	Hawaii	Kauai	Maui
Total acreage 1/	1,468,368	1,584,042	132,111	936,864	213,809	301,258
Recreation resources (acres):						
Park-related beach	285	366	195	16	99	56
Hunting areas	899,468	924,283	20,027	608,100	125,926	170,230
Recreation facilities:						
Improved acreage 1/	4,979	5,186	2,722	1,264	682	518
Active	2,410	2,559	1,362	575	376	246
Passive	2,019	2,198	1,091	614	282	211
Service	393	434	268	75	30	61
Linear facilities (miles):						
Trails	424	827	109	429	155	170
Bikeways	-	41	38	-	3	-

1/ Detail does not always add to indicated totals, for unstated reasons.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), p. 57.

Table 207.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1980

Type of facility or site	State total	Honolulu	Hawaii	Kauai	Maui
Active parks (sites)	428	272	65	38	53
Public	220	122	38	28	32
DOE and UH 1/	208	150	27	10	21
Swimming pools	52	35	7	5	5
Sport fields	481	302	69	61	49
Public	349	220	42	54	33
DOE and UH 1/	132	82	27	7	16
Sport courts	792	622	67	47	56
Public	555	473	19	35	28
DOE and UH 1/	237	149	48	12	28
Tennis courts	494	304	69	71	50
Public	258	178	38	19	23
Private	87	21	13	42	11
DOE and UH 1/	149	105	18	10	16
Golf courses (sites)	40	17	9	4	10
Public	8	5	1	1	1
Private	32	12	8	3	9
Boat lanes	66	25	19	13	9
Boat moorages	2,385	1,820	297	91	177
Sandy beaches (sites) ...	221	103	29	40	49
Improved park	84	43	8	18	15
Unimproved	137	60	21	22	34
Picnicking sites	170	65	42	26	37
Beach	113	47	29	19	18
Inland	57	18	13	7	19
Camping sites	64	21	19	13	11
Beach	51	20	14	12	5
Inland	13	1	5	1	6

1/ Hawaii State Department of Education and University of Hawaii.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 67, 69, 71, 73, and 75.

Table 208.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity.]

	Activity occasions 1/		Percent of State total accounted for by --	
Activity	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	83	17
Walking	240,434	191,201	78	22
Jogging	73,068	62,181	96	5
Hiking	15,709	10,413	79	21
Camping	20,809	16,130	96	5
Group camping	3,804	913	89	11
Picnicking	84,716	58,447	94	6
Hunting	1,502	234	90	10
Golf	15,681	11,714	79	21
Swim or sunbathing	171,525	123,616	75	25
Diving	20,875	13,483	77	23
Surfing	22,608	15,587	81	19
Boating	18,563	13,547	73	27
Canoe paddling	3,233	1,786	87	13
Fishing	24,875	17,322	96	4
Field games	32,404	27,065	98	2
Court games	19,070	15,891	100	0
Playground equipment	14,928	11,175	100	1
Tennis	18,106	12,749	85	15
Outdoor events	19,071	15,562	76	24
Bicycling	74,909	54,403	100	0
Motorcycling	8,722	6,719	83	17
Other activities	22,606	18,008	98	3
Sightseeing	59,212	39,271	47	53

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 80 and 83.

Table 209.-- NATIONAL PARKS: 1972 TO 1982

Year and area	Areas, Dec. 31	Acreage, Dec. 31			Visits
		Total	Federal	Non-Federal	
1972 1/	4	257,281	238,401	18,718	2,046,081
1973	4	257,219	238,435	18,784	2,025,593
1974	4	247,910	232,007	15,903	2,298,676
1975	4	247,910	237,732	10,178	2,559,429
1976	4	247,910	237,732	10,178	2,895,840
1977	4	247,910	237,732	10,178	2,932,555
1978	5	249,210	237,732	11,478	3,572,504
1979	5	249,210	238,000	11,210	3,384,343
1980	6	249,224	238,014	11,210	3,479,797
1981	7	265,881	246,788	19,093	4,225,217
1982 2/	7	248,097	235,243	12,854	4,950,621
AREAS: 1982					
Hawaii Volcanoes National Park 2/	...	207,643	207,643	-	2,626,971
Haleakala National Park	...	27,959	27,350	609	795,663
Pu'uhonua o Honaunau National Historical Park	...	181	181	-	345,920
Kaloko-Honokohau National Historical Park	...	1,300	-	1,300	(3/)
Puukohola Heiau National Historical Site	...	100	34	66	33,506
U.S.S. Arizona Memorial 4/	...	12	12	-	1,148,561
Kalaupapa National Historical Park	...	10,902	23	10,879	(3/)

1/ Federal and non-Federal acreage data exclude Puukohola Heiau and are not consistent with the total acreage, which refers to total area authorized as of these dates.

2/ This figure does not include the Olaa Forest tract. The 9,654-acre tract is entirely in Federal ownership, managed by the National Park Service, and has been designated as part of the wilderness system by Congress, but is not legally within the authorized boundary of Hawaii Volcanoes National Park.

3/ Not yet open to the public.

4/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure given is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 210.-- STATE PARKS: 1972 TO 1982

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1972	46	16,000	543.1	9,798
1973	46	16,108	523.7	13,271
1974	53	16,629	533.9	12,907
1975	53	18,181	578.9	12,124
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981 1/	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
ISLANDS: 1982				
Hawaii	18	2,281.2	310.3	3,247
Maui	11	199.9	50.5	3,025
Molokai	1	233.7	10.0	173
Oahu	30	8,772.4	366.8	4,427
Kauai	12	9,397.8	200.2	7,239

1/ Revised.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, records.

Table 211.-- MAJOR STATE PARKS: 1982

[Parks having at least 750,000 recreation visits or 1,000 acres.]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
Wailua River State Park 1/	1,061.7	16.7	2,490
Hana Road Waysides	14.3	4.0	1,294
Kokee State Park	4,640.0	55.0	1,000
Nuuanu Pali State Wayside	5.0	2.5	903
Hapuna Beach State Park	300.0	26.8	887
Waimea Canyon State Park	1,866.4	10.0	871
Olowalu-Kaanapali State Waysides	14.0	14.0	835
Wailua River State Park, Lydgate	36.7	36.7	764
Na Pali Coast State Park	1,337.4	4.0	42
Kahana Valley State Park	5,260.0	20.0	39
Sacred Falls	1,374.2	10.0	19

1/ Excluding Fern Grotto and Lydgate sections.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation, and Historic Sites, records.

Table 212.-- COUNTY PARKS: 1980 TO 1982

[As of December 31.]

Island	Number of areas			Acreage		
	1980	1981	1982	1980	1981	1982
State total 1/	618	622	627	8,189	8,186	8,257
Hawaii	133	134	134	1,440	1,445	1,445
Maui	89	91	82	944	952	921
Lanai			2			5
Molokai			10			51
Oahu 1/	339	339	343	5,281	5,283	5,315
Kauai	57	58	56	524	506	520
Niihau	-	-	-	-	-	-

1/ Revised from Data Book 1982, table 190.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the City and County of Honolulu Department of Parks and Recreation, Hawaii County Department of Parks and Recreation, Kauai County Department of Public Works, and Maui County Department of Parks and Recreation.

Table 213.-- ATTENDANCE AND WATER SAFETY AT BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1982

Subject	Number
Attendance, total 1/	12,724,614
District I: Ala Moana to Waikiki	5,766,607
District II: Hanauma Bay to Kualoa	3,692,584
North Shore: Kahana Bay to Waialua	2,371,946
Leeward: Makaha to Nanakuli	893,477
Rescues	917
First aid: Minor	21,228
Major	699
Resuscitation	25
Ambulance assistance	70
Police assistance	28
Fire assistance	18
Helicopter assistance	4
Lost and found children	65
Drownings: unguarded	-
Drownings: guarded	11

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 214.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1978 TO 1982

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1978	4	63	398,337	9,569
1979	4	63	351,204	8,414
1980	4	63	424,426	6,438
1981	4	63	461,543	5,989
1982	4	63	447,782	6,412

1/ By the City and County of Honolulu. Revised from Data Book 1982, table 192.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 215.-- FISHING AND HUNTING LICENSES ISSUED: 1978 TO 1983

[Years ended June 30.]

Year	Freshwater game fishing licenses	Hunting licenses
1978	8,804	11,925
1979	8,208	11,680
1980	7,815	11,905
1981	8,102	12,284
1982	8,526	11,935
1983	8,720	11,959

Source: Hawaii State Department of Land and Natural Resources, Report to the Governor (annual) and Division of Conservation and Resources Enforcement, records.

Table 216. -- FISHING AND HUNTING CHARACTERISTICS, BY RESIDENT STATUS: 1980

[Population 16 years old and older.]

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants	153,200	90,700	15,100
Freshwater	16,400	13,100	8,600
Saltwater	149,400	90,000	7,500
Deep sea	25,900	37,400	500
Surf and shore	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams	4,400	6,900	5,100
Participants as percent of population	21.7	(X)	2.1
Days of participation	3,017,900	257,700	242,700
Per fisherman	19.7	2.8	16.1
Total expenditures 1/ ($1,000)	23,153.9	26,388.1	(NA)
Per fisherman (dollars)	151	291	(NA)
HUNTING			
Participants	17,300	11,100	3,300
Deer	2,400	-	900
Wild turkey	1,800	-	400
Feral goat	9,100	5,700	-
Feral sheep	3,900	-	-
Feral pigs	10,600	4,900	-
Quail	3,500	9,900	500
Pheasant	7,500	9,900	400
Partridge	2,700	-	400
Migratory birds	2,300	5,500	200
Participants as percent of population	2.4	(X)	0.5
Days of participation	301,800	40,100	34,700
Per hunter	17.4	3.6	10.6
Total expenditures 1/ ($1,000)	3,853.1	3,138.6	(NA)
Per hunter (dollars)	223	283	(NA)

Footnotes and source on next page.

Table 216.-- FISHING AND HUNTING CHARACTERISTICS, BY RESIDENT STATUS: 1980 -- Con.

NA Not available.

X Not applicable.

1/ Expenditures for travel, food, lodging, and fees only. For further information, see source, pp. 18-30.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii, pp. 4, 7, 8, 9, 59, and 60.

Table 217.-- FISHER SURVEY AND CREEL CENSUS, FOR THE WAIKIKI-DIAMOND HEAD AREA AND MAUI: JULY 1, 1981 TO JUNE 30, 1982

Subject	Amount
Fish caught per fisher:	
Number 1/	3.9
Pounds	1.8
Hours spent per fish caught (Maui only)	4.1
Percent of catch by type of gear:	
Thrownet	36
Gillnet	24
Spear	24
Other types	16

1/ Predominant species caught and retained by the fishers included menpachi (u'u), aholehole, and manini.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Job Progress Report, Survey of Fishers and Creel Census, July 1, 1981 to June 30, 1982.

Table 218.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: 1983

Island	Public hunting areas		National Wildlife Refuges 1/		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,029.1	6	255.8	10	80.6
Hawaii	26	727.9	-	-	4	79.5
Maui	7	102.5	-	-	1	0.1
Lanai	1	35.6	-	-	-	-
Molokai	3	30.4	1	0.0	-	-
Oahu	13	26.0	2	0.2	4	0.7
Kauai	11	106.7	2	1.2	-	-
Niihau	-	-	-	-	-	-
Northwestern Hawaiian Islands	-	-	1	254.4	1	0.3

1/ U.S. Fish and Wildlife Service.

Source: Hawaii State Department of Land and Natural Resources, The Hawaii Wildlife Plan (March 1983), pp. 98-99, and records.

Table 219.-- GOLF COURSES, BY ISLANDS: 1981

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort 2/	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

2/ Includes one 18-hole course under construction in 1981.

Source: Thomas Kemper Hitch and Mary Ishii Kuramoto, Waialae Country Club, The First Half Century (1981), pp. 185-188.

Table 220.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1982

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,215	774	184.9	24.4	1,600
Hawaii	25	308	19.4	1.2	185
Maui	41	147	32.6	7.9	212
Lanai	24	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,102	275	50.3	12.5	594
Kauai	20	15	41.2	2.8	330

1/ As of December 31, 1982.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (monthly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 221.-- COUNTY TENNIS FACILITIES: 1981 AND 1982

[As of December 31.]

Island	Locations		Courts	
	1981	1982	1981	1982
State total 1/	81	81	248	249
Hawaii	21	21	45	45
Maui	10	10	32	32
Lanai	1	1	1	2
Molokai	1	1	2	2
Oahu 1/	39	39	146	146
Kauai	9	9	22	22
Niihau	-	-	-	-

1/ Revised from Data Book 1982, table 199.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 222.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1973 TO 1983

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1973	162	151	2:27:34	3:25:31
1974	347	297	2:23:02	3:01:59
1975	750	706	2:17:24	2:49:24
1976	1,670	1,443	2:20:37	2:44:44
1977	3,500	2,900	2:18:38	2:48:08
1978	5,580	5,587	2:17:05	2:43:10
1979	6,609	6,512	2:16:13	2:40:07
1980	6,716	6,630	2:16:55	2:35:26
1981	7,270	7,170	2:16:54	2:33:35
1982	12,275	10,023	2:15:29	2:41:10
1983	10,847	8,434	2:20:18	2:41:24

Source: Honolulu Marathon Association, records.

Table 223.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1971 TO 1983

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles, is run biennially between San Pedro, California, and Diamond Head Lighthouse, a great circle distance of 2,217 nautical miles.]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1971 1/ ...	69	9:09:06:48	9:05:34:22
1973	59	10:14:05:11	9:10:56:58
1975	65	9:23:54:51	7:22:29:05
1977	66	8:11:01:45	8:11:29:24
1979	80	11:18:01:04	11:14:42:51
1981	70	8:11:02:31	7:21:44:48
1983 2/ ...	66	9:01:53:48	7:22:55:15

1/ For earlier years, 1906-1969, see Smock's Transpac, cited in source.

2/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (San Diego: The Transpacific Yacht Club and the Maritime Museum Association of San Diego, 1980), pp. 442, 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1.

Table 224.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1981 TO 1983

Season	Games					Home openings	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1981:							
First half	66	35	31	.530	+1 1/2	37	72,105
Second half	71	37	34	.521	-6 1/2	28	85,973
Div. playoffs ...	3	1	2	.333	...	3	16,294
1982:							
First half	71	36	35	.507	-10	31	52,355
Second half	73	37	36	.507	-3	34	86,522
1983:							
First half	72	32	40	.444	-13 1/2	36	57,506
Second half	71	41	30	.577	-2 1/2	36	88,366

Source: Ferd Borsch, Islanders scorer, records; Hawaii Islanders, Inc., records.

Table 225.-- PUBLIC HIGH SCHOOL SPORTS: 1981-1982 SEASON

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
Baseball	Boys	342	63,465	129,675
Basketball ..	Boys and girls	836	92,645	317,855
Football	Boys	274	305,900	425,750

1/ Junior varsity and varsity games, based on published schedules of sports from all leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect both general and trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, letter dated March 14, 1983.

Table 226.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1980-1981 TO 1982-1983

[Data limited to games played against four-year collegiate teams.]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
1982-1983	47	20	-	36	51,133
Basketball: 2/					
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
1982-1983	17	11	-	18	72,343
Football:					
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261
1982-1983	6	5	-	8	336,193

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 227.-- DOG LICENSES ISSUED, BY ISLANDS: 1980 TO 1982

[Dogs licensed on an annual basis through May 27, 1980 and biennially thereafter.]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1980	61,115	6,069	4,820	122	398	48,407	1,299
1981	46,706	5,532	4,349	140	393	35,081	1,211
1982	25,617	1,682	1,500	32	62	20,845	1,496

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1982 reached $3.3 billion, almost triple the level reported ten years earlier. The 1982 total included $1.9 billion in U.S. taxes, $1.1 billion in State taxes, and $304 million in County taxes, licenses and fees. Individual income taxes accounted for 89 percent of Federal collections and 25 percent of State collections in Hawaii in 1982. State revenue receipts totaled $2.0 billion, chiefly from the General Excise and Use Tax ($577 million) and Federal grants-in-aid ($371 million). The largest expenditure item in the State accounts for 1982 was education, with $633 million (out of $1,958 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State quadrupled between 1973 and 1983, reaching $47 billion by the end of the period; of this total, $6.4 billion was exempt from taxation. Public bonded debt outstanding at the end of 1982 exceeded $2.3 billion.

Total government employment in 1982 averaged 90,000, about 14 percent over the 1972 average. The 1982 total included over 31,000 Federal workers, 46,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1982 numbered 18,600.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1982-83, Sections 9 and 10.

Table 228.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1972 TO 1982

Year	All levels of government			Federal 1/ ($1,000)	State 2/ ($1,000)	County 2/ ($1,000)
	Amount ($1,000)	Per capita 3/ (dollars)	Percent of personal income 4/			
1972	1,162,700	1,404	27.8	632,583	512,047	18,070
1973	1,327,151	1,560	28.5	735,359	571,689	20,104
1974	1,512,414	1,744	28.5	840,089	650,855	21,470
1975	1,852,804	2,096	32.2	1,087,520	743,926	21,358
1976	1,821,934	2,020	29.3	945,899	850,639	25,396
1977	2,038,318	2,225	29.2	1,106,687	905,959	25,682
1978	2,228,779	2,399	28.6	1,208,480	986,182	34,117
1979	2,620,195	2,758	30.1	1,455,226	1,127,677	37,292
1980	2,966,128	3,061	30.1	1,670,459	1,255,622	40,047
1981	3,245,507	3,315	30.0	1,826,363	1,371,490	47,655
1982	3,313,445	3,334	28.7	1,876,628	1,132,699	304,118

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.
2/ Fiscal years ended June 30.
3/ Based on estimated total resident population, June 30.
4/ Based on personal income estimates for calendar years.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual). Per capita collections and percentages calculated by DPED.

Table 229.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1972 TO 1982

[In thousands of dollars.]

Source	1972 1/	1981 2/	1982 2/
Total, all levels	1,162,700	3,245,508	3,313,445
Federal collections	632,583	1,826,363	1,876,628
Indiv. income and employment	532,391	1,594,288	1,662,349
Corp. income and excess profits	65,715	182,667	157,750
Other sources	34,477	49,408	56,529
State collections	512,047	1,371,490	1,132,699
General excise and use	186,556	549,277	577,265
Fuel	28,347	53,117	52,580
Liquor	9,426	6,964	7,701
Public service companies	15,661	50,150	56,987
Corporate income 3/	11,766	46,955	39,314
Indiv. income, net income 4/	120,061	334,570	283,000
Real property	98,265	217,262	671
Unemployment compensation	18,294	58,755	58,324
Other sources	23,671	54,440	56,857
County collections	18,070	47,655	304,118
Motor vehicle weight 5/	10,970	23,318	23,833
Real property	-	-	254,398
Other sources	7,100	24,337	25,888

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for other.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds, and delinquent compensation tax (repealed January 1, 1958).

5/ Includes State motor vehicle weight tax for 1981 and 1982.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1983, pp. 20 and 36.

Table 230.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1980 AND 1982

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1980 (dollars)	1982 (dollars)	Percent increase
Total tax burden 2/	15,233	17,106	12.3
Direct taxes	12,555	15,246	21.4
Real property	659	686	4.1
Automobile	233	257	10.3
General excise (sales)	529	819	54.8
Specific excise	120	215	79.2
State income	2,209	2,618	18.5
Federal income	6,684	7,915	18.4
Social Security	2,121	2,736	29.0
Employment taxes paid by employer	4,755	6,279	32.1
Social Security	2,121	2,736	29.0
Unemployment Compensation	532	543	2.1
Workers' Compensation	1,940	2,806	44.6
Temporary Disability	162	194	19.8
Assumed gross family income	36,892	44,144	19.7
Net income	21,659	27,038	24.8
Consumer price index (1967=100)	228.5	267.6	17.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (May 1981 and July 1983).

Table 231.-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR THE CITY AND COUNTY OF HONOLULU: 1980

[Data based on average family of four (wage earner, spouse, and two children) which owns its own home. Comprises State and local sales, income, auto, and real estate taxes.]

Income level	Total tax paid (dollars)	Percent of income
$10,000	607	6.1
$17,000	1,299	7.6
$25,000	2,157	8.6
$35,000	3,187	9.1
$50,000	4,657	9.3
$75,000	7,252	9.7

Source: Study by District of Columbia Department of Finance and Revenue, cited in Statistical Abstract of the United States: 1982-83, p. 302.

Table 232.-- STATE REVENUE RECEIPTS: 1981 AND 1982

[In thousands of dollars. Years ended June 30. Due to reclassification of funds, amounts not exactly comparable to prior years. Excludes certain Trust and Agency funds to avoid duplication.]

Source of revenues	1981: all funds	1982		
		All funds	General fund	Special funds
Total 1/	1,905,159	1,989,461	1,148,320	841,142
Tax revenues	1,143,324	1,120,390	1,003,422	116,968
General excise	549,277	577,265	560,753	16,512
Specific excises 2/	138,493	149,125	107,601	41,523
Individual income	334,419	282,685	282,685	-
Corporate income	46,955	39,314	39,314	-
Unemployment compensation	58,759	58,324	-	58,324
Other taxes, licenses, permits 3/	15,422	13,677	13,069	608
Fines, forfeits, and escheats	7,191	8,028	7,614	414
Federal grants-in-aid	389,855	370,659	10,390	360,269
Revenues from other agencies	1,435	7,602	936	6,666
Rents, royalties, land income	98,222	113,321	66,335	46,986
Earnings: general departments	110,396	141,633	39,962	101,671
Earnings: auxiliary enterprises	-	23,160	-	23,160
Earnings: public service enterp.	76,706	83,061	-	83,061
Repayment debt costs: counties	146	278	278	-
Interest earned	-	2,723	2,723	-
Miscellaneous	77,883	118,608	16,661	101,947

1/ Excludes transfers and repayments except as shown.

2/ Includes public utilities, tobacco, liquor, insurance and fuel taxes.

3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1983, p. 19.

Table 233.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1972 TO 1982

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1981 and 1982 data are not exactly comparable to prior years. Data include general and special fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication.]

Functions	1972	1981	1982
Total	762,413	1,940,376	1,958,473
General government: Control	12,414	33,238	34,922
Staff	24,980	75,906	79,581
Public safety: Police and fire .	242	2,145	2,038
Other protection	26,050	52,367	60,095
Highways	9,840	41,127	48,937
Natural resources	15,344	15,226	19,094
Health and sanitation	12,464	46,645	67,810
Hospitals and institutions	40,348	79,069	84,152
Public welfare	91,343	297,813	317,195
Education: Higher	107,178	215,244	240,227
Public schools	165,072	346,100	370,356
Libraries and other .	7,442	19,628	22,082
Recreation	1,581	15,286	12,848
Utilities and other enterprises	24,580	41,252	38,928
Debt service 1/	42,541	164,241	175,330
Retirement and pension	34,428	76,253	94,878
Employees' health and hosp. insurance	7,610	18,006	19,715
Salary adjustments	5	-	-
Unemployment compensation	48,970	64,816	79,445
Grants-in-aid to counties	19,448	18,243	18,273
Urban redevelopment and housing	5,187	269,186	82,803
Miscellaneous	6,998	20,139	41,466
Cash capital improvements 2/ ...	58,348	28,445	48,298

1/ Debt service on revenue bonds reimbursable from highway funds included in Highways; from airport and harbor funds under Utilities; from Sand Island receipts, Land Revolving and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $51,799,949 in 1972, $13,939,281 in 1981, and $39,852,659 in 1982 including $37,995,182 from all proprietary funds.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1983*, p. 45.

Table 234.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1972 TO 1982

[In thousands of dollars. For years ended June 30.]

Subject	1972	1981	1982
OPERATING REVENUES 1/			
Total	186,079	478,746	495,870
Real property taxes	98,263	217,257	254,397
Other taxes	22,943	45,909	51,994
Fees, licenses and permits	6,371	15,480	14,827
Departmental earnings 2/	10,682	45,360	60,445
State grants	22,278	24,584	24,545
Federal grants	22,276	105,415	76,771
Other sources	3,266	24,741	12,891
OPERATING EXPENDITURES 3/			
Total	174,038	450,043	489,335
General government	20,210	48,439	55,755
Police and fire	42,119	92,853	102,544
Other protection	7,681	14,936	15,815
Highways	14,004	26,028	27,568
Health and sanitation	13,406	36,285	43,234
Public welfare	101	5,517	6,505
Public schools	419	545	550
Recreation	13,384	32,459	35,982
Interest	10,227	14,419	18,267
Bond redemption	12,675	21,490	18,948
Pension and retirement	10,510	33,049	32,235
Economic and urban development 4/	10,066	28,057	20,638
Mass transit	-	26,693	38,084
Miscellaneous	7,226	25,043	27,426
Cash capital improvements	12,010	44,230	45,784

Footnotes and source follow next table.

Table 235.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1982

[In thousands of dollars. For year ended June 30.]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	372,701	41,992	54,984	26,193
Real property taxes	189,838	21,804	30,301	12,454
Other taxes	40,465	4,187	4,899	2,443
Fees, licenses and permits	11,997	1,170	1,160	500
Departmental earnings 2/	46,734	6,228	4,285	3,198
State grants	8,918	5,034	7,150	3,443
Federal grants	63,455	3,174	6,394	3,748
Other sources	11,294	395	795	407
OPERATING EXPENDITURES 3/				
Total	367,909	42,104	54,041	25,281
General government	36,289	6,833	7,500	5,133
Police and fire	72,772	8,941	15,177	5,654
Other protection	10,583	1,088	3,548	596
Highways	17,368	4,111	4,692	1,397
Health and sanitation	34,902	4,518	2,865	949
Public welfare	-	3,018	1,478	2,009
Public schools	-	163	257	130
Recreation	25,728	3,386	5,097	1,771
Interest	12,534	1,162	2,898	1,673
Bond redemption	16,327	1,147	1,459	15
Pension and retirement	22,499	2,272	5,574	1,890
Economic and urban development 4/.	20,638	-	-	-
Mass transit	36,683	-	1,401	-
Miscellaneous	20,438	3,281	991	2,716
Cash capital improvements	41,148	2,184	1,104	1,348

1/ Excludes loan, bond, revolving, and certain trust funds and Water Supply revenues.

2/ Includes rentals, interest, garbage collection charges and other earnings.

3/ Excludes certain revolving, bond, and Act 97, SLH 1965 fund expenditures and loan repayments.

4/ Includes expenditures from Federal redevelopment grants.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1982, pp. 32, 33, 46, and 47.

Table 236.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1981 AND 1982

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Source of revenue	Tax base		Tax collections	
	1981	1982	1981	1982
All sources	21,013,424	20,228,500	575,216	574,591
Sources taxed at 4 percent	13,459,282	13,547,046	538,371	541,882
Retailing	6,700,750	6,874,963	268,030	274,999
Services	1,809,913	1,905,068	72,396	76,203
Contracting	1,613,764	1,294,871	64,551	51,795
Theater, amusement, radio	129,501	130,280	5,180	5,211
Interest	205,989	205,443	8,240	8,218
Commissions	276,679	241,847	11,067	9,674
Hotel rentals	770,705	844,926	30,828	33,797
All other rentals	1,269,800	1,420,361	50,792	56,814
Use (4 percent)	436,335	387,365	17,453	15,495
All others	245,846	241,922	9,834	9,677
Sources taxed at other rates 1/	7,554,142	6,681,454	36,877	32,709
Insurance solicitors	255,321	199,512	383	299
Sugar processing	415,442	317,880	2,077	1,589
Pineapple canning	172,342	185,367	862	927
Producing	176,582	173,891	883	869
Manufacturing	630,732	530,598	3,154	2,653
Wholesaling 2/	3,528,763	3,207,768	17,644	16,039
Services (intermediary)	57,191	69,775	286	349
Use (1/2 percent)	2,317,769	1,996,663	11,589	9,983
Adjustments	-	-	-32	-

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

2/ The "Blind, Deaf and Disabled" category, which used to be reported separately, is now combined with "Wholesaling.".

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 237.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1973 TO 1983

[In thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years.]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1973 ...	70	10,762,052	5,884,121	4,877,931	6,807,565
1974 ...	70	12,642,408	6,677,996	5,964,412	8,316,444
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
1983 2/.	100	46,659,440	23,603,352	23,056,088	39,508,235

1/ Percent of fair market value.

2/ Government parcels assessed at $1; their actual value in 1983 was $8,172,000,000.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, and Exemptions" (annual, 1982 forward).

Table 238.-- REAL PROPERTY TAX VALUATIONS: 1981 TO 1983

[In thousands of dollars.]

Subject	1981	1982	1983
Assessor's gross valuation 1/	25,371,079	29,631,825	46,659,440
Land	13,775,220	15,982,660	23,603,352
Improvement	11,595,859	13,649,165	23,056,088
Exemptions 1/	7,363,906	8,129,360	6,392,649
Federal	1,175,428	1,273,390	2,268,632
State	2,117,885	2,399,785	4,434,374
County	656,691	771,156	1,399,919
Hawaiian Homes Commission	30,245	66,757	69,075
Homes -- fee	1,699,450	1,777,043	3,093,750
Homes — leasehold	535,287	544,873	877,754
Public utilities	134,604	150,430	275,896
All other 2/	1,014,316	1,145,926	2,145,249
Assessor's net taxable valuation ..	18,007,173	21,502,465	40,266,791
Half of valuation on appeal	73,437	104,633	758,556
Number of appeals	1,287	3,234	7,390
Valuation for tax rate purposes ...	17,933,736	21,397,832	39,508,235
Land	9,882,163	11,506,523	21,357,040
Improvement	8,051,573	9,891,309	18,151,195
Amount to be raised by taxation 3/	254,782	276,982	290,152
Assessment ratio (percent)	60	60	100

Footnotes and source follow next table.

Table 239.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1983

[In thousands of dollars.]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	33,459,170	6,227,016	4,730,721	2,042,533
Land	17,013,686	2,864,386	2,508,709	1,216,571
Improvement	16,445,484	3,362,630	2,222,012	1,025,962
Exemptions 1/	5,016,516	487,353	653,116	235,664
Federal	2,232,654	7,131	19,685	9,162
State	3,769,828	177,071	395,025	92,450
County	1,238,334	89,909	44,982	26,694
Hawaiian Homes Commission	39,672	6,248	19,625	3,530
Homes -- fee	2,135,402	323,641	455,367	179,340
Homes -- leasehold	828,798	18,101	27,086	3,769
Public utilities	227,415	25,115	18,909	4,457
All other 2/	1,824,901	120,496	151,754	48,098
Assessor's net taxable valuation .	28,442,654	5,739,663	4,077,605	2,006,869
Half of valuation on appeal	438,100	105,953	57,327	157,176
Number of appeals	2,545	1,467	1,069	2,309
Valuation for tax rate purposes ..	28,004,554	5,633,710	4,020,278	1,849,693
Land	15,310,236	2,675,592	2,339,368	1,031,845
Improvement	12,694,318	2,958,118	1,680,910	817,848
Amount to be raised by taxation 3/	212,964	25,349	36,943	14,896

1/ Assessor's gross valuation and total for exemptions include government parcels in 1981 and 1982 but exclude them in 1983.

2/ Mostly churches, non-profit organizations, low-moderate income housing, schools, and hospitals.

3/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions (annual).

Table 240.-- MAXIMUM ASSESSED VALUE PER SQUARE FOOT FOR LAND, BY ISLANDS: JANUARY 1, 1983

[The legal assessment ratio is 100 percent of fair market value.]

Island	Location	Use	Assessed value per square foot (dollars)
Hawaii	Hilo	Commercial	15.00
Maui	Lahaina	Commercial	72.50
Lanai	Lanai City	Commercial	4.20
Molokai ...	Kaluakoi Resort	Residential	8.00
Oahu	Waikiki Beach	Hotel apt.	173.40
Kauai	Waiohai Hotel	Hotel	21.84
Niihau	Entire island	...	1/ 7.20

1/ Per acre.

Source: City and County of Honolulu, Department of Finance, Property Technical Office, data provided April 15, 1983.

Table 241.-- REAL PROPERTY TAX RATES, BY COUNTIES: FISCAL YEAR 1983-1984

[In dollars per $1,000 assessed value.]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	7.05	4.50	8.60	7.70
Unimproved residential	7.05	4.50	10.00	7.70
Apartment	7.05	4.50	10.00	8.70
Other land use classes 1/ ..	9.00	4.50	10.00	8.70
Improvement:				
Improved residential	7.05	4.50	8.60	7.06
Unimproved residential	7.05	4.50	8.60	7.06
Apartment	7.05	4.50	8.60	8.25
Other land use classes 1/ ..	9.00	4.50	8.60	8.25

1/ Commercial, industrial, agricultural, conservation, and hotel/resort.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions, 1983-84 Tax Year, State of Hawaii (July 1983).

Table 242.-- ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970 TO 1980

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total ($1,000)	Per return (dollars)
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976	362,956	4,625,609	12,744
1977	380,937	5,218,740	13,700
1978	403,217	5,943,659	14,741
1979	412,922	6,493,228	15,725
1980	424,177	7,320,740	17,259

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual).

Table 243.-- INTERNAL REVENUE SERVICE OPERATIONS: 1981

Subject	Amount
Internal revenue collections ($1,000)	1,826,363
Individual income and employment taxes	1,606,039
Total returns filed	756,216
Individual income tax	425,322
Returns examined	9,306
Individual	8,024
Additional tax and penalties recommended after examination ($1,000)	36,820
Individual	10,464
Costs incurred ($1,000)	6,656

Source: *1981 Annual Report, Commissioner of Internal Revenue and the Chief Counsel for the Internal Revenue Service*, pp. 29, 42, 48, 49, and 57.

Table 244.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970, 1979 AND 1980

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms and other factors.]

Size of adjusted gross income	1970	1979	1980
All returns	302,426	412,922	424,177
Under $5,000	113,236	97,399	94,724
$5,000 under $10,000	76,465	89,037	82,752
$10,000 under $15,000	56,096	63,473	63,452
$15,000 under $20,000	31,559	45,042	45,809
$20,000 under $25,000	13,173	31,998	36,570
$25,000 under $30,000	4,698	28,081	29,055
$30,000 under $50,000	5,411	46,767	55,685
$50,000 under $100,000	1,480	9,490	14,175
$100,000 under $200,000	254	1,331	1,605
$200,000 under $500,000	50	254	284
$500,000 under $1,000,000 ..	4	34	51
$1,000,000 or more		16	15
Median income (dollars)	6,928	11,577	12,727

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns (annual).

Table 245.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS, TOTAL AND JOINT: 1980

[Income earned in 1980.]

Type of return and size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
ALL RETURNS				
Total	424,177	7,320,740	331,439	1,043,741
Under $5,000	94,724	183,190	21,127	3,123
$5,000 under $10,000 ...	82,752	609,047	67,679	37,172
$10,000 under $15,000 ..	63,452	775,063	61,229	71,981
$15,000 under $20,000 ..	45,809	795,393	44,835	96,166
$20,000 under $25,000 ..	36,570	816,343	35,947	98,507
$25,000 under $50,000 ..	84,740	2,915,255	84,566	438,441
$50,000 or more	16,130	1,226,450	16,056	298,352
JOINT RETURNS OF HUSBANDS AND WIVES				
Total	195,315	5,123,453	169,785	752,430
Under $5,000	12,847	-3,398	18	62
$5,000 under $10,000 ...	17,603	136,055	8,102	2,886
$10,000 under $15,000 ..	28,623	351,977	27,105	21,043
$15,000 under $20,000 ..	22,704	397,694	21,824	35,029
$20,000 under $25,000 ..	25,283	564,463	24,660	59,395
$25,000 under $50,000 ..	73,423	2,565,895	73,300	370,238
$50,000 or more	14,832	1,110,766	14,776	263,776

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1980, Individual Income Tax Returns (1982), p. 107.

Table 246.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1971 TO 1981

[In dollars.]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1971	7,366	2,962	12,685	8,936	4,263	13,497
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,726	4,236	17,716	11,057	5,838	19,718
1978	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980
1981	10,220	5,794	23,321	14,737	8,455	26,881

NA Not available.

1/ Including married filing separately and heads of households.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual).

Table 247.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1981, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns	448,320	6,884,575	4,416,315	332,288
Taxable resident returns	345,294	6,633,508	4,416,315	332,288
$1,000, under $5,000	63,909	189,527	93,615	3,623
$5,000, under $10,000	67,138	497,578	311,763	17,554
$10,000, under $20,000	87,811	1,266,753	849,875	57,234
$20,000, under $30,000	54,302	1,340,651	885,082	65,067
$30,000, under $50,000	55,212	2,113,612	1,418,687	111,245
$50,000, under $75,000	13,330	768,096	537,830	46,162
$75,000, under $100,000	1,958	165,193	118,015	10,924
$100,000 and over	1,634	292,098	201,448	20,479
Nontaxable resident returns ..	83,806	125,496	...	...
Loss	3,156	(38,573)	...	...
Under $5,000	74,174	53,441	...	...
$5,000, under $10,000	4,188	29,497	...	...
$10,000 and over	2,288	42,558	...	...
Nonresident returns	19,220	125,571	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1981, Individuals, p 31.

Table 248.-- FEDERAL OUTLAYS IN HAWAII: 1968 TO 1982

[In thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148
1979	2,659,230	1,371,860	1,287,370
1980	3,151,277	1,647,987	1,503,290
1981 1/	3,743,067	2,115,627	1,627,440
1982 1/	3,432,592	1,815,801	1,616,791

1/ Data for 1981 and 1982 may not be exactly comparable with data for earlier years.

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980); U.S. Bureau of the Census, Federal Expenditures by State (annual report, 1981 and 1982).

Table 249.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: FISCAL YEARS 1981 AND 1982

[In thousands of dollars.]

Type of expenditure	1981	1982
All categories	3,743,067	3,432,592
Grants to State and local governments	442,955	407,598
Salaries and wages	1,430,101	1,554,274
Direct payments to individuals	1,007,776	1,106,206
Procurement	849,665	349,507
Other major programs	12,570	15,007
Department of Defense 1/	2,115,627	1,815,801
Other agencies	1,627,440	1,616,791

1/ Grants, wages and salaries, procurement, and Army research program.

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1981 (February 1983) and Federal Expenditures by State for Fiscal Year 1982 (February 1983).

Table 250.-- FEDERAL AID: 1977 TO 1982

[In thousands of dollars.]

Years ended September 30	Amount
1977	400,144
1978	413,391
1979	407,881
1980	463,258
1981	442,955
1982	407,598

Source: U.S. Department of the Treasury, Federal Aid to States (annual).

Table 251.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1972 TO 1982

[In millions of dollars. As of December 31.]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 252.-- STATE GENERAL OBLIGATION BOND DEBT: 1972 TO 1982

[In dollars. As of June 30.]

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1972	522,918,000.00	2,109,114.74	520,808,885.26
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73
1978	1,336,906,000.00	496,979.40	1,336,409,020.60
1979	1,343,780,000.00	139,000.00	1,343,641,000.00
1980	1,418,764,000.00	139,000.00	1,418,625,000.00
1981	1,331,326,266.00	139,000.00	1,331,187,266.00
1982	1,464,486,784.00	-	1,464,486,784.00

Source: Hawaii State Department of Accounting and General Services, information submitted February 22, 1983.

Table 253.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: ANNUAL AVERAGES, 1970 TO 1982

Year	Total government	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1970	73,640	33,380	22,080	11,300	30,600	9,660
1971	78,220	32,920	21,520	11,400	34,920	10,380
1972	79,400	32,700	21,200	11,500	35,300	11,450
1973	78,050	31,650	20,600	11,050	35,250	11,150
1974	78,900	31,000	20,200	10,800	35,950	11,950
1975	82,000	30,550	19,700	10,850	38,700	12,750
1976	84,800	29,850	19,200	10,600	41,350	13,600
1977	85,700	29,300	19,000	10,250	42,650	13,800
1978	87,050	29,350	19,100	10,250	43,350	14,350
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980	89,050	30,000	18,700	11,250	45,150	13,900
1981	89,000	30,350	19,400	10,900	45,250	13,350
1982	90,300	31,500	20,400	11,100	45,650	13,150

1/ Air Force, Army, and Navy.

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised May 1983, and records.

Table 254.-- STATE CIVIL SERVICE: 1980 TO 1982

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions.]

Subject	1980	1981	1982
Civil service employees	17,327	18,221	18,569
Department of Education	3,985	4,502	4,524
Department of Health	4,393	4,683	4,812
Department of Social Services and Housing	1,874	2,090	2,198
Department of Transportation	1,862	1,846	1,899
University of Hawaii	1,514	1,536	1,544
All others	3,699	3,564	3,592
Separations	2,155	2,633	2,748
Promotions	789	768	926
Transfers, demotions, and returns after promotions	843	866	966
Classification actions processed	3,999	3,127	3,581
Applications received	19,761	21,292	25,475
Applicants screened	18,650	21,110	24,554
Applicants placed on eligible list	7,704	10,445	9,956
Vacancies filled by competitive and noncompetitive actions	3,648	3,187	3,544

Source: Hawaii State Department of Personnel Services, Annual Report 1981-82, pp. 2, 3, 5, and 7.

Table 255.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: 1981 TO 1983

[In dollars per month. As of July 1. Data refer to lowest and highest rate among six bargaining units classified under the salary range schedules. The bargaining units are: 3, white-collar; 4, white-collar supervisors; 9, registered nurses; 10, hospital and institutional; 11, State Government firefighters; and 13, professional and scientific.]

Salary range	Lowest			Highest		
	1981	1982	1983	1981	1982	1983
SR-4	705	770	770	1,063	1,261	1,261
SR-11	941	1,028	1,028	1,391	1,637	1,637
SR-21	1,425	1,551	1,551	2,171	2,555	2,555
SR-31/EM-8 ..	2,160	2,425	2,425	3,456	4,034	4,034

Source: Hawaii State Department of Personnel Services, records.

Section 9

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life.

Total social welfare costs reached $289 million in fiscal 1982, compared with $94 million a decade earlier. About 58 percent of the 1981 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1982 was 69,000, or 7.0 percent of the resident population of the State at the beginning of the year. Two-thirds of all public assistance payments and 53 percent of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $355, more than twice as much as in 1970. Participation in the food stamp program included 38,000 households and 99,000 persons. Among workers receiving unemployment compensation in 1982, weekly benefits averaged $124. Almost 117,000 Hawaii residents were receiving Social Security benefits as of the end of 1982, and about 81,000 were enrolled for Medicare. There were also 14,000 State and County government pensioners in 1982, with annual benefits of $105 million. Child adoptions in 1982 numbered 603. The Aloha United Way reported agency allocations of $8.2 million on Oahu and $1.6 million on the Neighbor Islands in 1982. A recent comparative study of the "quality of life" in 277 American metropolitan areas ranked Honolulu 28th.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 11 of the Statistical Abstract of the United States: 1982-83 presents comparable Mainland data.

Table 256.-- SOCIAL WELFARE COSTS: 1972 TO 1982

[In thousands of dollars. For years ended June 30.]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1972	94,212	38,143	56,069	6,324	34,278	53,610	-
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241

Source: Hawaii State Department of Social Services and Housing, records.

Table 257.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1972 TO 1982, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978 5/..	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979 5/..	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980 5/..	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982	26,130	68,835	8,124	11,629	12,228	355.42	135.05

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

5/ Major program recipients, 1980, and service cases, 1978-1980, revised from 1981 _Data Book_, table 216.

Source: Hawaii State Department of Social Services and Housing, records.

Table 258.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1982

[Monthly averages for year ended June 30, 1982.]

County	Major programs 1/		Service cases	Average money payments 2/ (dollars)	
	Recipients	Individuals		Per case	Per individual
State total	26,130	68,835	8,124	355.42	135.05
Hawaii	3,837	10,267	1,027	360.00	134.68
Maui	1,912	4,840	568	341.50	134.95
Honolulu	19,403	51,410	5,918	356.92	134.85
Kauai	978	2,318	611	334.58	141.30

1/ Old-age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

2/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, data provided May 6, 1983.

Table 259.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1981 AND 1982

[Years ended June 30.]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1981	1982	1981	1982	1981	1982
All programs	135,521	135,882	36,698	35,429	308	320
Old age assistance 1/ .	9,092	9,543	4,984	4,707	152	169
Aid to the blind 1/ ...	396	449	156	166	211	226
Aid to disabled 1/	12,375	13,764	5,022	5,128	205	224
Aid to families with dependent children 2/	92,505	90,495	19,963	18,865	386	400
Child welfare foster care	1,120	1,403	580	589	161	199
General assistance	20,033	20,228	5,993	5,974	278	282

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 260.-- FOOD STAMPS: 1981 AND 1982

[Years ended June 30.]

Subject	1981	1982
Participation in food stamp program (monthly averages)		
Households, total participating	40,461	38,239
Public assistance recipients	23,452	22,022
Other participants 1/	17,009	16,217
Persons, total participating	104,033	99,226
Public assistance recipients	63,184	60,827
Other participants 1/	40,849	38,399
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients	66,428	68,173
Purchase (amount paid for by recipients)	-	-
Bonus or free coupons given to recipients	66,428	68,173

1/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 261.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1970 TO 1982

Year	Number of recipients, December	Monthly amount, December ($1,000)	Total payment, calendar year ($1,000)
1970	66,488	6,437	77,593
1971	70,912	7,666	92,440
1972	76,413	10,141	107,125
1973	82,224	11,202	134,198
1974	87,141	13,433	155,178
1975	91,731	15,629	181,775
1976	96,230	17,894	210,423
1977	101,911	20,669	241,814
1978	105,988	23,464	273,564
1979	109,952	27,462	310,320
1980	113,538	33,078	365,861
1981 1/ ...	115,670	38,155	435,126
1982 1/ ...	116,660	42,194	478,981

1/ Based on a 10-percent sample.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 262.-- CHARACTERISTICS OF OLD-AGE, SURVIVORS AND DISABILITY INSURANCE BENEFICIARIES: DECEMBER 1982

[Monthly benefits in payment status.]

Subject	Number of benefits		Amount of benefits ($1,000)	
	State total	Oahu	State total	Oahu
Total	116,660	82,820	42,194	30,047
Beneficiary category:				
Retired workers	70,710	51,140	29,717	21,398
Disabled workers	6,220	4,610	2,744	2,029
Spouses	10,800	7,140	2,045	1,370
Children	17,130	11,700	3,586	2,414
Widowed	11,800	8,230	4,102	2,836
Age of beneficiaries:				
Under 65 years	41,380	29,070	11,605	8,155
65 to 71 years	35,780	25,740	30,589	21,892
72 years and over	39,500	28,010		
Sex of adult beneficiaries:				
Men	47,740	33,160	22,011	15,215
Women	51,790	37,960	16,597	12,419

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, data supplied May 1983.

Table 263.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1981

Coverage	Enrollment, July 1, 1981		Reimbursement, calendar year 1981 ($1,000)	
	Age 65 and over 1/	Under age 65 2/	Age 65 and over 1/	Under age 65 2/
Hospital and/or medical insurance	77,613	7,651	92,507	17,058
Hospital insurance	75,646	7,650	60,312	8,448
Medical insurance	74,959	7,004	32,195	8,609

1/ Persons aged 65 and over entitled to monthly Social Security Administration (SSA) benefits or payments from the Railroad Retirement Board (RRB), persons uninsured for SSA or RRB benefits but transitionally insured for Medicare, and persons aged 65 and over not included in the above groups who purchase hospital insurance and supplementary medical insurance coverage. Also included are persons dually entitled because they are age 65 and over and have end-stage renal disease (ESRD).

2/ Persons under age 65 entitled to SSA disability benefits for at least 24 months, those who are dually entitled because they receive SSA disability benefits and have ESRD, and those deemed disabled solely because of ESRD.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Medicare Reimbursement, 1981, pp. 80-81.

Table 264.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY SEX AND COUNTIES: JULY 1, 1982

[Persons enrolled with hospital and/or medical coverage.]

County	Both sexes	Male	Female
State total	81,429	40,667	40,762
City and County of Honolulu	58,753	28,469	30,284
Other counties	22,607	12,172	10,435
Hawaii	10,431	5,622	4,809
Kalawao	101	53	48
Kauai	4,650	2,575	2,075
Maui	7,425	3,922	3,503
County not reported	69	26	43

Source: U.S. Bureau of the Census, Population Division, Local Area Population Estimates Branch, memorandum dated May 12, 1983.

Table 265.-- UNEMPLOYMENT INSURANCE: 1972 TO 1982

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1972 ...	321,751	92	14,485	54	141.92
1973 ...	335,615	92	12,107	46	151.17
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	413,095	93	11,291	56	244.56
1981 ...	417,018	94	12,224	51	260.56
1982 ...	(NA)	(NA)	13,656	44	(NA)

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1972 ...	37,865	90	65.57	19.9	41.7
1973 ...	37,014	93	67.57	16.0	30.2
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (July 1983), pp. 17, 19, 25, 37, 42, and 43.

Table 266.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1972 TO 1982

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1972 ..	43,736	6,667	489,436,678	31,359,208	247	478,522
1973 ..	44,471	7,343	545,465,277	37,601,889	262	425,864
1974 ..	43,371	7,971	611,675,571	41,130,325	271	487,504
1975 ..	44,363	8,600	683,305,413	46,782,477	297	563,513
1976 ..	45,256	9,263	773,878,470	53,625,776	313	631,714
1977 ..	46,371	10,099	886,596,717	59,158,256	330	725,621
1978 ..	47,273	10,772	1,007,744,828	61,211,832	347	775,393
1979 ..	47,476	11,382	1,144,077,004	70,062,195	352	823,891
1980 ..	48,868	12,052	1,301,853,352	78,415,562	390	932,899
1981 ..	49,426	13,012	1,474,543,376	94,345,203	416	1,069,419
1982 ..	49,806	13,787	1,668,028,237	104,934,660	437	1,373,452

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 57th Annual Report, June 30, 1982, pp. 19 and 34, as corrected, and records.

Table 267.-- CHILD ADOPTIONS: 1977 TO 1982

Type of adoption	1977	1978	1979	1980	1981	1982
Total	606	537	786	670	659	603
By relatives	470	371	583	471	429	388
By nonrelatives	136	166	203	199	230	215
Placed by social agencies 1/	70	94	129	123	129	127

1/ 1980 and 1981 data revised from Data Book 1982, table 242.

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-280 Adoption Card.

Table 268.-- FOUNDATIONS: 1979-1981

[Figures are for latest year reported by foundations at time of survey. A foundation may be defined as a nongovernmental, nonprofit organization, with funds and programs managed by its own trustees or directors, and established to maintain or aid social, educational, charitable, religious, or other activities serving the common welfare, primarily by making grants. Excludes organizations which make general appeals to the public for funds, act as trade associations for industrial or other special groups, are restricted by charter solely to aiding one or several named institutions, or which are captive trusts, within colleges, churches, or other organizations.]

Name of foundation	Assets ($1,000)	Grants made ($1,000)
All foundations	126,879.6	7,029.2
Amfac Foundation 1/	1,141.8	784.4
Anthony (Barbara Cox) Foundation 2/	16,772.6	73.7
Atherton Family Foundation 2/	24,218.8	1,491.3
Castle (Harold K. L.) Foundation 1/	30,363.8	952.1
Castle (Samuel N. and Mary) Foundation 3/	11,669.3	804.2
Cooke Foundation, Limited 4/	8,312.3	382.5
Frear (Mary D. and Walter F.) Eleemosynary Trust 1/	4,336.3	194.1
Hawaiian Foundation, The 1/	4,568.5	355.3
Ho (Chinn) Foundation 2/	1,466.4	146.8
McInerny Foundation 5/	13,105.9	949.0
Straub (Gertrude S.) Trust Estate 6/	2,010.8	105.7
Watumull (Rama) Fund 6/	310.7	106.0
Wilcox (G. N.) Trust 1/	6,906.6	566.1
Wilcox (S. W.) Trust 1/	1,695.8	118.0

1/ Fiscal year ended December 31, 1981.
2/ Fiscal year ended December 31, 1979.
3/ Fiscal year ended December 31, 1980.
4/ Fiscal year ended June 30, 1980.
5/ Fiscal year ended June 30, 1981.
6/ Fiscal year ended June 30, 1979.

Source: Foundation Center, Foundation Directory (Fall 1982), as retrieved through the Dialog Information Retrieval Service, File 26, on March 2, 1983.

Table 269.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1979 TO 1982

[In dollars.]

Year	Four island total	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai	Maui United Way
TOTAL REVENUES					
1979	8,993,375	7,624,588	590,582	247,666	530,539
1980	9,833,286	8,190,293	636,072	261,899	745,022
1981	10,338,063	8,653,172	693,686	285,922	705,283
1982	10,872,908	9,023,086	740,431	331,288	778,103
CONTRIBUTIONS					
1979	8,852,477	7,510,568	577,408	244,867	519,634
1980	9,265,006	7,890,704	613,528	257,375	503,399
1981	10,271,048	8,647,244	665,253	279,846	678,705
1982	10,593,239	8,837,180	713,677	321,693	720,689
TOTAL OUTLAYS					
1979	8,920,736	7,563,216	600,905	240,823	515,792
1980	9,399,208	7,940,862	614,606	256,536	587,204
1981	10,393,563	8,725,788	691,370	282,945	693,460
1982	10,839,280	9,018,346	726,288	323,333	771,313
AGENCY ALLOCATIONS					
1979	8,199,320	6,972,047	523,759	221,000	482,514
1980	8,554,649	7,287,382	528,000	233,700	505,567
1981	9,308,287	7,867,395	595,665	258,500	586,727
1982	9,743,142	8,170,563	619,850	283,500	669,229

Source: Aloha United Way, Annual Report (annual); Hawaii United Way, Inc., Financial Statements (annual), and records; United Way of Kauai and Maui United Way, records.

Table 270.-- SOCIAL SERVICE ORGANIZATIONS: 1977

[Data are shown only for tax-exempt individual and family social service organizations with payroll.]

Subject	Amount
Number of establishments	65
Payroll, entire year ($1,000)	6,967
Paid employees, mid-March	994
Percent of establishments providing --	
Job counseling	45.7
Other counseling	74.3
Adoption and foster care service	5.7
Traveler's aid service	5.7
Disaster and temporary relief service	14.3
Recreation service	25.7
Neighborhood development service	28.6
Fund-raising, exc. on a fee basis	25.7
Offender rehabilitation service	17.1
Alcohol and/or drug rehabilitation services	22.9
Other	51.4

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 31.

Table 271.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU: 1960 TO 1980

Area ranked and authority	Year of data	Areas ranked	Local rank
State:			
Midwest Research Institute 1/	1960	51	14
Midwest Research Institute 2/	1970	51	15
Lifestyle Magazine 3/	(NS)	51	6
Honolulu:			
Griffin and Dee 4/	1960	48	4
Midwest Research Institute 5/	1970	65	31
University of Nebraska 6/	1970-76	100	7
Boyer and Savageau 7/	1975-80	277	28

NS Not specified.

1/ John O. Wilson, The Quality of Life in America (Midwest Research Institute Report, Winter 1967), pp. 10-11; cited in Ben-Chieh Liu, The Quality of Life in the United States 1970: Index, Rating, and Statistics (Midwest Research Institute, May 1973), p. 23.

2/ Liu, op. cit., p. 23.

3/ Lifestyle Publishing, Inc., Lifestyle Magazine, November 1972, p. 18; cited in Liu, op. cit., p. 23.

4/ John M. Griffin and Norbert Dee, "Measuring the Intangible: How to Quantify Quality of Life," Industrial Management, September-October 1975, pp. 9-15, espec. p. 10. Based largely on data for cities (rather than SMSAs).

5/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for SMSAs.

6/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

7/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for "late 1970s through 1980."

Source cited in above footnotes

Table 272.-- QUALITY OF LIFE INDEX RANKINGS, BY SUBJECT, FOR THE HONOLULU STANDARD METROPOLITAN STATISTICAL AREA: 1975-1980

[Data refer to the rank of the Honolulu SMSA among the 277 SMSAs in the United States, based on data for the late 1970s through 1980.]

Subject	Rank
Cumulative score ranking 1/	28
Climatic mildness	18
Cost of owning a single-family home	277
Health care and environment	62
Safety from crime	137
Transportation supply	11
Educational effort and opportunities	207
Recreational opportunities	35
Supply of cultural facilities	21
Personal economic opportunities	115

1/ Based on an overall score of 883. The first-ranking SMSA, Atlanta, had a score of 679; the last-ranking SMSA, Lawrence-Haverhill, had a score of 1,878.

Source: Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Company, 1981), pp. 372-378.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces.

There were approximately 59,000 officers and enlisted men (including 5,300 aboard ships homeported in Hawaii) and 66,000 military dependents in the Islands as of July 1, 1983. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for one-third of the current total. More than 11,900 Hawaii residents were in the armed forces worldwide in 1982. The importance of national defense in Hawaii can be further measured by total expenditures ($1.7 billion), military prime contract awards ($526 million), civilian employment (20,400), veterans in civil life (100,000), military personnel receiving retired or retainer pay (10,700 men, receiving $10.8 million monthly), military-connected pupils in public schools (19,000), military housing (19,000 units), and land owned by the armed forces (207,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, and the Hawaii State Census Statistical Areas Committee. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series on the armed forces dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1982-83 presents data on national defense and veterans affairs for other States and the entire nation.

Table 273.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1981 TO 1983

[Based on home of record.]

Date	Number
1981: June 30	11,927
1982: June 30	11,926
1983: June 30	11,641

Source: U.S. Department of Defense, Manpower Data Center, records.

Table 274.-- ARMED FORCES AND DEPENDENTS: 1981 TO 1983

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.]

Year	Active-duty military personnel in Hawaii, June 30			Dependents located in Hawaii, March 31 1/
	Total	Shore-based 2/	Afloat 3/	
1981	52,619	44,315	8,304	52,628
1982	53,915	45,796	8,119	53,967
1983	(NA)	46,319	(NA)	52,160

NA Not available.

1/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

2/ Including personnel afloat and mobile but temporarily shorebased.

3/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington, Headquarters Services, Information Operations and Reports, Department of Defense Worldwide Manpower Distribution by Geographical Area, June 30, 1983, pp. 3 and 29, and records.

Table 275.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1983

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume.]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791

1/ Ship crews living ashore are included with the ashore total. The number of crew members living ashore increased sharply between 1981 and 1982, primarily because of the increased housing allowance offered to Navy personnel after June 1, 1982.

Source follows next table.

Table 276.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1983

[See headnote to preceding table.]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Ashore		Aboard ship		
		In hsg. units	In barracks			
State total ..	59,021	35,910	17,845	5,266	66,252	26,791
By island:						
Oahu	58,617	35,652	17,699	5,266	65,874	26,613
Hawaii	209	154	55	-	176	71
Maui	26	19	7	-	24	11
Kauai	147	84	63	-	173	94
Molokai	1	1	-	-	5	2
Kure Atoll	21	-	21	-	-	-
By service:						
Air Force	5,725	4,472	1,253	-	9,386	4,128
Army	17,425	10,943	6,482	-	24,443	10,106
Coast Guard	1,076	661	132	283	1,015	440
Marine Corps	11,937	5,082	5,343	1,512	11,011	3,527
Navy	22,858	14,752	4,635	3,471	20,397	8,590

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1983 (Statistical Report 161, August 11, 1983).

Table 277.-- NATIONAL GUARD STRENGTH: JUNE 30, 1982

Category and island	Total	Air National Guard	Army National Guard
Authorized strength, Statewide	6,238	2,037	4,201
Assigned strength, Statewide	5,720	2,022	3,698
Hawaii	809	179	630
Maui	374	126	248
Molokai	42	-	42
Oahu	4,006	1,449	2,557
Kauai	489	268	221

Source: Hawaii State Department of Defense, Annual Report, Fiscal Year 1982, pp. 6 and 10, and records.

Table 278.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1980 TO 1983

[As of April 1.]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1980	19,354	2,975	7,186	315	8,878
1981	19,347	2,975	7,186	308	8,878
1982	19,326	2,957	7,177	315	8,877
1983	19,238	2,957	7,142	315	8,824

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), tables 9 and 10; Housing Unit Estimates for Hawaii, 1970-1982 (Statistical Report 156, July 28, 1982), table 9; and Housing Unit Estimates for Hawaii, 1970-1983 (Statistical Report 162, August 15, 1983), table 9.

Table 279.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1970 TO 1982

Year	Total	Air Force	Army	Navy
1970	22,080	3,680	6,100	12,300
1971	21,520	3,430	6,020	12,070
1972	21,200	3,400	6,000	11,800
1973	20,600	3,300	6,050	11,250
1974	20,200	3,300	5,700	11,200
1975	19,700	3,300	5,300	11,100
1976	19,200	3,200	4,950	11,050
1977	19,000	3,050	4,750	11,200
1978	19,100	2,850	4,500	11,750
1979	18,850	2,750	4,250	11,850
1980	18,700	2,650	4,100	11,950
1981	19,400	2,600	4,300	12,500
1982	20,400	2,650	4,650	13,100

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, and Labor Force Data Book (March 1978), as revised May 1983.

Table 280.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SERVICE: SEPTEMBER 30, 1982

Category	All services	Army	Navy	Air Force	Other defense activities
Total	63,035	21,797	32,188	8,943	107
Military personnel	42,945	17,268	19,376	6,301	-
Civilian personnel	20,090	4,529	12,812	2,642	107

Source follows next table.

Table 281.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1982

Installation or geographic area	Total DOD	Military personnel	Civilian personnel
State total	63,035	42,945	20,090
Aiea	952	702	250
Barbers Point	2,338	1,905	433
Ford Island	357	316	41
Fort Shafter	1,653	-	1,653
Helemano	133	133	-
Hickam AFB	7,422	5,123	2,299
Honolulu	3,457	1,537	1,920
Kaneohe	9,425	8,828	597
Kapalama Mil. Reserve	228	5	223
Kauai	195	131	64
Lualualei	592	248	344
Pearl Harbor	15,842	6,611	9,231
Schofield Barracks	14,089	13,091	998
Tripler Army Medical Center	2,419	1,417	1,002
Wahiawa	991	793	198
Waialua	602	566	36
Wheeler AFB	1,191	756	435
Other	1,149	783	366

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1982, pp. 43-44.

Table 282.-- DEFENSE EXPENDITURES: 1972 TO 1982

[In thousands of dollars.]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1972 1/	744,239	309,015	250,808	184,416
1973 1/	840,851	335,475	257,521	247,855
1974 1/	897,861	381,281	271,007	245,573
1975	982,779	396,413	281,955	304,411
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
1982	1,693,410	716,841	508,569	468,000
SERVICE: 1982				
Air Force	173,745	93,321	31,806	48,618
Army	611,586	299,072	104,543	207,971
Coast Guard	29,893	23,644	3,587	2,662
Navy and Marines	878,186	300,804	368,633	208,749

1/ Revised from Data Book 1981, table 235.
Source: Quarterly reports submitted by armed forces.

Table 283.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1980 TO 1982

[Net value of Department of Defense prime contract awards over $10,000, for the 25 major procurement programs. In thousands of dollars.]

Procurement program	Fiscal years		
	1980	1981	1982
All major programs	315,410	590,746	526,143
Ships	6,270	9,348	16,998
Electronics and communications equipment	14,349	16,215	16,498
Petroleum	146,519	243,135	269,150
Subsistence	12,829	14,482	21,059
Construction	67,718	203,376	101,634
Services	60,304	96,359	86,631
Other major programs	7,421	7,831	14,173

1/ For details, see source.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Prime Contract Awards by Region and State, Fiscal Years 1980, 1981, 1982, p. 29.

Table 284.-- VETERAN STATUS BY COUNTIES: 1980

Status	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Civilian persons 16 years and over	665,036	66,997	516,877	144	28,420	52,598
Veteran	103,774	10,476	81,737	12	4,262	7,287
Percent of civilian persons 16 years and over .	15.6	15.6	15.8	8.3	15.0	13.9
Male veteran	98,633	10,117	77,356	12	4,133	7,015
Percent of civilian males 16 years and over ...	31.1	29.9	32.0	...	28.4	26.4

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2-13 (September 1982), table P-3.

Table 285.-- VETERANS IN CIVIL LIFE: 1977 AND 1982

[In thousands.]

Period of service	Sept. 30, 1977	Sept. 30, 1982
Total veterans 1/	93	100
War veterans 1/	80	80
Vietnam era	33	32
Korean conflict	21	21
World War II	31	32
World War I	1	1
Post-Vietnam era only 2/	1	5
Between Korea and Vietnam only	12	15

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

Source: Veterans Administration, Veteran Population (semi-annual report).

Table 286.-- MILITARY PERSONNEL RECEIVING RETIRED PAY: SEPTEMBER 30, 1982

Service	Number of personnel 1/	Monthly amount 2/	
		Total ($1,000)	Per person (dollars)
Dept. of Defense	10,658	10,753	1,009
Army	4,470	4,128	923
Navy	2,938	3,019	1,028
Marine Corps	710	748	1,054
Air Force	2,540	2,858	1,125

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of Actuary, Defense Manpower Data Center, FY 1982 DOD Statistical Report on the Military Retirement System (1983), p. 17.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, turnover, industrial safety, unionization, and strikes.

The civilian labor force averaged 458,000 in 1982; of this total, 428,000 persons were employed and 31,000 were unemployed and seeking work. The civilian jobcount rose from 350,000 in 1972 to 442,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) The unemployment rate averaged 6.7 percent in 1982, with island levels ranging from 6.1 to 18.5 percent. In 1980, 57.8 percent of all females 16 years old and over were in the civilian labor force -- the fourth highest ratio in the nation. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include government (90,000 in 1982), services (101,000), and retail trade (87,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $15,400 in 1982, almost twice the 1972 average. Average weekly hours in 1982 ranged from 31.8 (for retail trade) to 43.9 (for communications and utilities). Labor union membership was estimated at 113,000 in 1980. Work stoppages in 1982 involved 911 workers.

Analyzing labor force trends is greatly complicated by shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based primarily on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1982 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1982-83.

Table 287.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Persons 16 years and over ..	723,479	67,205	574,903	144	28,629	52,598
Labor force	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force	435,780	41,006	339,863	82	18,789	36,040
Employed	415,181	38,150	324,113	82	18,223	34,613
Unemployed	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force	4.7	7.0	4.6	-	3.0	4.0
Not in labor force	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
Labor force	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over	57.8	51.3	58.3	...	58.2	60.3
Civilian labor force	199,392	17,007	158,618	35	8,052	15,680
Employed	189,850	15,875	151,089	35	7,756	15,095
Unemployed	9,542	1,132	7,529	-	296	585
Percent of civilian labor force	4.8	6.7	4.7	-	3.7	3.7
Not in labor force	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years .	62,606	6,679	48,648	-	2,632	4,647
In labor force	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only	65,359	5,661	52,415	-	2,681	4,602
In labor force	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2-13 (September 1982), table P-3.

Table 288.-- LABOR FORCE STATUS IN 1979, BY COUNTIES: 1980

Subject	The State	Counties: Hawaii	Honolulu	Kalawao	Kauai	Maui
LABOR FORCE STATUS IN 1979						
Male, 16 years and over, in labor force in 1979 ...	532,005	45,565	427,197	84	20,053	39,106
Worked in 1979	523,269	44,583	420,055	84	19,846	38,701
50 to 52 weeks	335,829	28,060	270,935	59	13,095	23,680
40 to 49 weeks	70,236	4,620	57,815	1	2,242	5,558
1 to 39 weeks	117,204	11,903	91,305	24	4,509	9,463
Usually worked 35 or more hours per week	415,384	34,761	334,495	55	15,197	30,876
50 to 52 weeks	297,414	24,420	241,127	50	11,160	20,657
With unemployment in 1979	80,254	6,609	65,901	1	2,296	5,447
Unemployed 15 or more weeks ...	27,064	3,102	21,341	-	766	1,855
Mean weeks of unemployment	13.9	18.4	13.4	...	13.5	13.6
WORKERS IN FAMILY IN 1979						
Families	227,974	22,825	178,516	30	9,687	16,916
No workers	21,137	3,100	15,152	4	1,087	1,794
1 worker	65,930	7,174	51,611	12	2,645	4,488
2 or more workers	140,907	12,551	111,753	14	5,955	10,634

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2-13 (September 1982), table P-3.

Table 289.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1982

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,650	305,650	16,000	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	409,000	369,000	40,000	9.8
1977	419,000	388,000	31,000	7.4
1978	417,000	385,000	32,000	7.7
1979	420,000	394,000	26,000	6.2
1980 1/ .	439,000	417,000	21,000	4.9
1981 1/ .	450,000	426,000	24,000	5.4
1982	458,000	428,000	31,000	6.7

1/ Revised from Data Book 1982, table 260.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), table 1, as revised May 1983.

Table 290.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1970 TO 1982

[Data for 1976-1980 are preliminary revisions and not precisely comparable to estimates for earlier years.]

Year	Oahu	Hawaii County	Kauai County	Maui County 1/			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1970	258,900	28,300	13,650	20,700	1,150	17,250	2,300
1971	270,900	30,200	14,200	21,500	1,150	18,150	2,250
1972	281,900	30,750	14,500	23,850	1,500	19,400	2,950
1973	292,650	32,100	15,000	24,850	1,450	20,400	2,950
1974	301,100	33,150	15,050	25,800	1,550	21,300	2,950
1975	304,200	34,600	16,300	27,800	1,600	23,200	3,000
1976	323,950	37,000	17,750	30,350	1,650	25,550	3,100
1977	330,500	37,850	18,550	32,150	1,700	27,200	3,250
1978	328,150	37,400	18,350	33,100	1,800	27,700	3,600
1979	330,150	37,250	18,500	34,100	1,750	28,650	3,700
1980 2/ ...	339,550	41,800	19,950	36,650	1,250	33,150	2,300
1981 2/ ...	345,950	44,300	20,650	39,150	1,200	35,500	2,400
1982	351,100	44,950	21,000	41,950	1,300	38,050	2,600
CIVILIAN EMPLOYMENT							
1970	246,400	27,050	12,950	19,250	1,100	16,050	2,100
1971	252,350	28,150	13,300	19,650	1,000	16,700	1,950
1972	260,800	28,500	13,350	21,400	1,300	17,600	2,500
1973	272,600	29,500	13,850	22,450	1,350	18,650	2,450
1974	278,400	29,900	13,750	23,350	1,400	19,400	2,500
1975	280,050	31,150	14,800	25,050	1,400	21,100	2,550
1976	292,950	32,800	16,050	27,150	1,450	23,050	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978	303,600	33,700	17,100	30,650	1,600	25,800	3,200
1979	310,300	34,250	17,450	32,000	1,650	27,050	3,300
1980 2/ ..	323,950	39,200	19,100	34,750	1,150	31,600	2,000
1981 2/ ..	328,850	40,850	19,450	36,800	1,100	33,550	2,150
1982	329,600	40,500	19,300	38,600	1,050	35,350	2,200

Continued on next page.

Table 290.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1970 TO 1982 — Con.

Year	Oahu	Hawaii County	Kauai County	Maui County 1/			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1970	12,500	1,250	700	1,450	50	1,200	200
1971	18,500	2,100	900	1,850	100	1,450	300
1972	21,150	2,250	1,150	2,450	150	1,800	500
1973	20,100	2,600	1,150	2,400	150	1,750	500
1974	22,700	3,250	1,300	2,450	150	1,850	450
1975	24,200	3,450	1,500	2,750	200	2,100	450
1976	30,950	4,200	1,650	3,200	200	2,500	450
1977	23,950	3,450	1,200	2,350	150	1,900	350
1978	24,550	3,750	1,250	2,450	200	1,900	400
1979	19,900	2,950	1,050	2,100	100	1,600	400
1980 2/ ..	15,600	2,600	850	1,900	100	1,500	300
1981 2/ ..	17,050	3,400	1,200	2,300	50	1,950	300
1982	21,500	4,450	1,700	3,300	250	2,700	400
PERCENT UNEMPLOYED							
1970	4.8	4.4	5.2	7.0	3.4	7.0	8.6
1971	6.8	6.9	6.3	8.6	9.5	8.0	13.3
1972	7.5	7.4	7.8	10.3	10.8	9.3	16.1
1973	6.9	8.2	7.6	9.7	8.6	8.6	17.1
1974	7.5	9.8	8.5	9.5	9.1	8.8	14.5
1975	8.0	9.9	9.1	9.8	11.4	9.0	15.7
1976	9.6	11.3	9.4	10.5	13.1	9.8	14.5
1977	7.3	9.2	6.5	7.4	8.0	7.0	10.1
1978	7.5	10.0	6.8	7.5	10.7	6.8	10.8
1979	6.0	8.0	5.6	6.2	5.6	5.6	11.1
1980 2/ ..	4.6	6.2	4.4	5.2	7.4	4.6	13.1
1981 2/ ..	4.9	7.7	5.9	5.9	5.9	5.5	12.0
1982	6.1	9.9	8.1	7.9	18.5	7.1	15.4

1/ Figures for 1980 and later years are not comparable to previous years.

2/ Revised from Data Book 1982, table 261.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 2-8, as revised May 1983.

Table 291.-- LABOR FORCE, TOTAL AND CIVILIAN, BY RACE AND SPANISH ORIGIN: 1980

Race and Spanish origin	Total labor force 1/	Civilian labor force 2/
Persons 16 years old and over	494,223	435,780
Race: 3/		
White	177,584	134,499
Black	11,425	3,638
American Indian	1,635	1,102
Eskimo	28	19
Aleut	18	18
Japanese	137,158	136,235
Chinese	29,376	29,200
Filipino	61,300	59,118
Korean	9,040	8,887
Asian Indian	376	369
Vietnamese	1,225	1,219
Hawaiian	48,736	48,046
Guamanian	657	489
Samoan	4,030	3,656
Other Asian and Pacific Islander	2,606	2,543
Race not elsewhere classified	9,029	6,742
Spanish origin:		
Of Spanish origin	29,566	25,444
Not of Spanish origin	464,657	410,336

1/ Includes armed forces.

2/ Excludes armed forces.

3/ Persons of mixed race classified by self-indentification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 20.0 percent of civilian workers in 1980 were of mixed race (14.2 percent Part Hawaiian and 5.8 percent non-Hawaiian); see Data Book 1982, table 263.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 87, and 95.

Table 292.-- ETHNIC STOCK OF EMPLOYED CIVILIANS, 16 YEARS OLD AND OVER, BY SEX, BY COUNTIES: 1982

[Includes military dependents.]

Sex and ethnic stock	State total	Honolulu	Hawaii	Kauai	Maui
Total 1/	395,399	304,227	36,990	18,133	36,049
Male	214,967	163,002	21,939	10,379	19,648
Caucasian	56,121	41,705	6,647	2,194	5,574
Japanese	60,751	45,578	6,178	3,496	5,498
Chinese	11,936	11,121	463	77	275
Filipino	25,918	19,059	1,932	2,093	2,834
Hawaiian	2,992	1,938	685	125	243
Korean	3,404	3,300	104	-	-
Negro	985	927	42	17	-
Puerto Rican	1,453	945	320	123	65
Samoan	1,128	1,049	43	-	36
Other unmixed 2/ ..	2,140	1,959	-	-	182
Part Hawaiian	32,686	23,574	4,038	1,606	3,468
Other mixed	15,454	11,847	1,486	647	1,474
Female	180,431	141,225	15,051	7,754	16,402
Caucasian	44,995	33,950	4,730	1,419	4,896
Japanese	55,541	44,478	4,471	2,404	4,188
Chinese	9,636	9,136	256	42	202
Filipino	22,146	16,705	1,169	1,940	2,334
Hawaiian	1,206	633	234	69	269
Korean	4,546	4,410	94	-	42
Negro	570	534	-	-	35
Puerto Rican	855	448	240	72	95
Samoan	430	430	-	-	-
Other unmixed 2/ ..	1,875	1,606	92	-	176
Part Hawaiian	23,998	17,583	2,576	1,005	2,834
Other mixed	14,634	11,312	1,189	804	1,329

1/ Employed based on usual activity. Not comparable to employment data from the Hawaii State Department of Labor and Industrial Relations.

2/ Includes not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 293.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: NOVEMBER 1982

Subject	Number	Subject	Number
Total	13,394	Age:	
		Under 22 years	969
Race:		22 to 24 years	1,152
White	3,938	25 to 34 years	4,657
Black	121	35 to 44 years	2,913
Indian	-	45 to 54 years	1,872
Hispanic	107	55 to 64 years	1,612
Hawaiian	1,286	65 years and over	219
Chinese/Korean	656		
Filipino	2,880	Duration:	
Japanese	2,237	1 to 4 weeks	3,871
Other	1,929	5 to 14 weeks	5,573
Unknown	241	15 weeks and over	3,950
Sex:		Occupation:	
Male	8,582	Professional, technical, managerial	1,768
Female	4,812	Clerical, sales	2,175
		Services	1,906
Industry:		Farm/fish/forestry	890
State government	560	Processing	1,149
County government	127	Machine trades	341
Agriculture	771	Bench work	138
Construction	3,473	Structural work	3,815
Manufacturing	2,160	Miscellaneous	1,207
Food processing	1,644	Unknown	5
Transportation, communication, utilities	925		
Wholesale/retail trades	2,357		
Finance, insurance, real estate	673		
Services	2,270		
Hotel	591		
Others and unknown	78		

Source: Hawaii State Department of Labor and Industrial Relations, Characteristics of the Insured Unemployed in Hawaii, November 1982, p. 2.

Table 294.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1982

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1970	331,580	270,310	28,410	12,540	20,320
1971	339,070	276,260	29,000	12,960	20,840
1972	349,950	285,900	29,450	13,050	21,550
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
1980 1/ .	444,200	354,800	37,150	18,150	34,100
1981 1/ .	445,050	353,650	38,000	18,150	35,350
1982	442,350	349,600	37,800	17,950	37,000

1/ Revised from Data Book 1982, table 264.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-56, as revised; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 295.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1973 TO 1982

Industry	1973	1974	1975	1976	1977
Nonagriculture, wage and salary	327,500	335,900	342,800	349,200	359,400
Contract construction	26,650	27,900	26,350	21,400	19,750
Manufacturing	23,800	22,700	23,650	23,400	23,200
Durable goods	4,600	4,700	4,800	4,550	4,600
Nondurable goods	19,250	18,000	18,850	18,800	18,600
Food processing	11,250	10,050	11,250	11,300	11,250
Sugar	4,150	3,700	4,450	4,350	3,950
Pineapple	3,350	2,550	2,800	2,850	3,050
Other	3,750	3,850	4,000	4,050	4,250
Textile, apparel	3,650	3,750	3,400	3,300	3,250
Printing, publishing	2,800	2,700	2,650	2,700	2,750
Other nondurables	1,500	1,500	1,550	1,550	1,350
Transp., commun., utilities ..	25,600	26,300	26,400	27,100	28,200
Transportation	16,100	17,200	17,450	18,200	19,200
Communication	6,800	6,400	6,400	6,400	6,500
Utilities	2,750	2,700	2,600	2,500	2,500
Trade	80,450	82,150	83,750	87,900	92,200
Wholesale	15,350	15,650	15,850	16,050	16,600
Retail	65,150	66,500	67,900	71,800	75,550
Finance, insur., real estate .	22,600	24,000	24,250	24,700	25,650
Services and miscellaneous ...	70,350	73,950	76,400	79,900	84,750
Hotels	18,950	19,450	19,950	20,900	22,100
Other services, misc.	51,400	54,500	56,500	59,000	62,650
Government	78,050	78,900	82,000	84,800	85,700
Federal	31,650	31,000	30,550	29,850	29,300
Air Force	3,300	3,300	3,300	3,200	3,050
Army	6,050	5,700	5,300	4,950	4,750
Navy	11,250	11,200	11,100	11,050	11,200
Other	11,050	10,800	10,850	10,600	10,250
State	35,250	35,950	38,700	41,350	42,650
Local	11,150	11,950	12,750	13,600	13,800
Agriculture, wage and salary ...	10,750	10,200	11,050	11,050	11,300
Sugar	5,550	4,450	5,200	5,050	5,000
Pineapple	2,600	2,300	2,300	2,200	2,400
Other	2,600	3,400	3,550	3,800	3,900
Nonagric., self-employed 2/	21,500	21,650	22,050	22,050	23,000
Agric., self-employed 3/	4,600	4,700	4,800	4,450	4,400
Labor disputes	700	2,200	200	250	500

Continued on next page.

Table 295.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1973 TO 1982 -- Con.

Industry	1978	1979 1/	1980 1/	1981 1/	1982
Nonagriculture, wage and salary	377,300	394,000	404,100	404,800	401,100
Contract construction	20,650	23,400	23,950	21,900	18,000
Manufacturing	23,700	23,900	23,350	23,000	22,450
Durable goods	4,700	4,800	4,700	4,250	3,800
Nondurable goods	19,000	19,100	18,650	18,750	18,650
Food processing	11,700	11,600	11,150	11,150	11,200
Sugar	4,150	3,950	3,900	3,950	3,850
Pineapple	3,200	3,200	2,900	2,800	2,750
Other	4,300	4,400	4,350	4,350	4,600
Textile, apparel	3,250	3,300	3,050	2,950	2,850
Printing, publishing	2,850	2,950	3,100	3,150	3,200
Other nondurables	1,200	1,250	1,350	1,500	1,400
Transp., commun., utilities ..	28,800	30,500	31,200	31,900	31,700
Transportation	19,950	21,200	21,500	21,900	21,700
Communication	6,350	6,750	7,150	7,400	7,450
Utilities	2,500	2,500	2,550	2,600	2,550
Trade	97,900	102,900	105,250	105,450	105,900
Wholesale	17,200	18,300	18,600	18,700	18,900
Retail	80,700	84,650	86,700	86,750	87,000
Finance, insur., real estate .	28,850	31,500	32,850	31,700	31,700
Services and miscellaneous ...	90,300	95,350	98,450	101,900	101,050
Hotels	22,850	24,100	24,900	24,800	26,450
Other services, misc.	67,450	71,250	73,550	77,100	74,600
Government	87,050	86,500	89,050	89,000	90,300
Federal	29,350	29,700	30,000	30,350	31,500
Air Force	2,850	2,750	2,650	2,600	2,650
Army	4,500	4,250	4,100	4,300	4,650
Navy	11,750	11,850	11,950	12,500	13,100
Other	10,250	10,800	11,250	10,900	11,100
State	43,350	43,300	45,150	45,250	45,650
Local	14,350	13,500	13,900	13,350	13,150
Agriculture, wage and salary ...	11,550	10,850	10,650	11,550	11,300
Sugar	4,900	5,000	4,950	5,200	4,700
Pineapple	2,550	2,550	2,500	2,450	2,450
Other	4,100	3,300	3,200	3,950	4,150
Nonagric., self-employed 2/	23,800	24,350	24,350	24,300	25,900
Agric., self-employed 3/	4,700	4,550	4,500	4,350	3,950
Labor disputes	150	700	500	50	100

Footnotes and source follow next table.

Table 296.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1982

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	401,100	327,250	28,700	15,050	30,050
Contract construction	18,000	14,450	1,500	600	1,500
Manufacturing	22,450	16,400	2,750	1,300	2,000
Durable goods	3,800	3,350	200	(Z)	250
Nondurable goods	18,650	13,050	2,600	1,250	1,750
Food processing	11,200	6,300	2,200	1,150	1,550
Textile, apparel	2,850	2,750	(NS)	(NS)	(NS)
Printing, publishing	3,200	2,800	(NS)	(NS)	(NS)
Other nondurables	1,400	1,200	(NS)	(NS)	(NS)
Transp., commun., utilities .	31,700	26,350	1,900	1,600	1,850
Transportation	21,700	18,700	(NS)	(NS)	(NS)
Communication	7,450	5,850	(NS)	(NS)	(NS)
Utilities	2,550	1,800	(NS)	(NS)	(NS)
Trade	105,900	87,300	7,350	3,750	7,550
Wholesale	18,900	16,450	1,400	350	700
Retail	87,000	70,850	5,950	3,400	6,850
Finance, insur., real estate	31,700	27,250	1,350	850	2,250
Services and miscellaneous ..	101,050	79,050	7,300	4,200	10,550
Hotels	26,450	14,700	3,200	2,150	6,450
Other services, misc.	74,600	64,350	4,100	2,050	4,100
Government	90,300	76,550	6,600	2,800	4,350
Federal	31,500	30,400	600	250	250
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	4,650	4,600	(NS)	(NS)	(NS)
Navy	13,100	13,050	(NS)	(NS)	(NS)
Other	11,100	10,200	(NS)	(NS)	(NS)
State	45,650	36,800	4,250	1,700	2,900
Local	13,150	9,350	1,750	850	1,200
Agriculture, wage and salary ..	11,300	2,700	3,800	1,400	3,400
Sugar	4,700	650	1,450	1,300	1,300
Pineapple	2,450	1,000	-	-	1,450
Other	4,150	1,000	2,300	150	650
Nonagric., self-employed 2/ ...	25,900	18,750	2,750	1,300	3,150
Agric., self-employed 3/	3,950	800	2,550	200	400
Labor disputes	100	100	-	-	(Z)

Z Fewer than 50.
NS Not shown separately.
1/ Revised from Data Book 1982, table 265.
2/ Includes unpaid family workers and domestics.
3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9 to 14-E, 20-E, 26-E, 32-E, and 56-E as revised May 1983.

Table 297.-- INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 298.-- CLASS OF WORKER: 1940 TO 1980

Class of worker	Persons 14 years old and over			Persons 16 years old and over	
	1940	1950	1960	1970	1980
All employed persons 1/	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

1/ Excluding armed forces.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (February 1962), table 56; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 56; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 299.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers	32,244	909	30,207	3	508	617
State Government workers	43,814	4,945	34,268	48	1,715	2,838
Local Government workers	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisheries, and mining	14,793	4,272	5,662	1	1,762	3,096
Construction	29,888	3,477	21,423	-	1,621	3,367
Manufacturing	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods	21,234	2,539	14,713	3	1,354	2,625
Durable goods	11,680	638	10,269	5	194	574
Transportation	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities	11,086	812	8,771	-	668	835
Wholesale trade	16,089	1,477	13,286	7	462	857
Retail trade	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate	31,648	2,174	26,145	-	1,074	2,255
Business and repair services	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services	22,390	1,700	18,429	4	873	1,384
Educational services	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services	18,984	1,588	15,385	2	741	1,268
Public administration	41,573	2,771	35,407	47	1,427	1,921

Source: U.S Bureau of the Census, 1980 Census of Population and Housing, Advance Estimates of Social Economic, and Housing Characteristics, PHC80-S2-13 (September 1982), table P-3.

Table 300.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations	48,671	25,048	16,900	6,129
Professional specialty occupations	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations	132,651	83,698	89,078	53,113
Technicians and related support occupation	11,982	7,442	4,501	2,027
Sales occupations	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical	73,194	48,029	57,112	35,515
Service occupations	74,149	44,024	41,691	26,766
Private household occupations	1,547	2,131	1,376	2,024
Protective service occupations	7,578	4,304	855	143
Service occupations, except protective and household	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors	14,000	13,589	5,730	5,743
Transportation and material moving occupations	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers	17,993	16,180	3,281	3,108

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 61.

Table 301.-- OCCUPATION, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations	11,982	864	9,915	-	614	589
Sales Occupations	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical	73,194	5,096	61,239	14	2,257	4,588
Service occupations	74,149	6,283	56,939	17	3,742	7,168
Private household occupations	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, PHC80-S2-13 (September 1982), table P-3.

Table 302.-- PLACE OF WORK BY COUNTY OF RESIDENCE: 1980

County of residence and place of work 1/	Workers 16 years and over
Hawaii County residents	36,857
Hawaii County	32,510
Hilo CDP	14,629
Remainder of County	17,881
Maui County	72
Kalawao County	41
City and County of Honolulu	528
Honolulu CDP	274
Remainder of Oahu	254
Kauai County	982
Worked elsewhere	80
Place of work not reported	2,644
Maui County residents	33,872
Maui County	30,465
Kahului CDP	7,025
Wailuku CDP	5,081
Lahaina CDP	5,705
Remainder of County	12,654
Hawaii County	78
Kalawao County	-
City and County of Honolulu	323
Honolulu CDP	231
Remainder of Oahu	92
Kauai County	15
Worked elsewhere	30
Place of work not reported	2,961
Kalawao County residents	86
Kalawao County	77
Place of work not reported	9

Continued on next page.

Table 302.-- PLACE OF WORK BY COUNTY OF RESIDENCE: 1980 — Con.

County of residence and place of work 1/	Workers 16 years and over
City and County of Honolulu residents	368,253
City and County of Honolulu	326,856
Honolulu CDP	228,715
Central business district	26,633
Remainder of CDP	202,082
Other urban places, by districts	69,121
Ewa	24,157
Wahiawa	18,470
Waianae	3,901
Waialua	1,888
Koolaupoko	20,705
Remainder of Oahu	29,020
Remainder of State	1,680
Worked elsewhere	9,182
Place of work not reported	30,535
Kauai County residents	18,117
Kauai County	16,289
Lihue CDP	6,179
Remainder of County	10,110
Hawaii County	390
Maui County	18
Kalawao County	-
City and County of Honolulu	267
Honolulu CDP	55
Remainder of Oahu	212
Worked elsewhere	-
Place of work not reported	1,153

1/ CDP refers to census designated places.

Source: Advance tabulation from 1980 census report on place of work destinations.

Table 303.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1972 TO 1982

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1972	14,563	321,352	2,569,893	7,997
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
1982	20,259	408,791	6,281,953	15,367
EXCLUDING GOVERNMENT				
1977	17,825	280,836	2,816,521	10,029
1978	18,841	296,454	3,202,300	10,802
1979	19,633	314,447	3,689,161	11,732
1980	19,982	323,307	4,105,082	12,697
1981	20,184	325,897	4,423,850	13,574
1982	20,253	320,885	4,563,866	14,223
NON-AGRICULTURAL 1/				
1977	17,267	269,554	2,706,712	10,041
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709
1980	19,597	311,808	3,956,617	12,689
1981	19,799	314,016	4,261,467	13,571
1982	19,876	309,531	4,412,058	14,254

1/ Data for 1977 exclude approximately 850 persons employed by condominium associations, classified as agricultural in 1977 but non-agricultural thereafter.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 304.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1982

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
State total ..	20,259	408,791	20,253	320,885	4,563,866	14,223
Oahu	15,612	329,018	15,609	254,884	3,714,578	14,574
Hawaii County	2,017	31,901	2,014	25,240	321,326	12,731
Maui County	1,763	31,499	1,760	27,127	354,199	13,057
Kauai County	873	16,374	870	13,634	173,763	12,745

Source: Hawaii State Department of Labor and Industrial Relations, 1982 Employment and Payrolls in Hawaii (September 1983).

Table 305.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1982

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	20,259	408,791	6,281,953	15,367
Government	6	87,906	1,718,087	19,545
Federal	1	32,493	755,889	23,263
State	1	42,206	728,399	17,258
County	4	13,207	233,799	17,703
Private	20,253	320,885	4,563,866	14,223
Agriculture, forestry, fisheries	377	11,354	151,808	13,370
Sugar	13	4,420	71,177	16,103
Pineapple	5	2,272	29,068	12,794
Other	359	4,662	51,563	11,060
Mining and contract construction	1,617	17,900	424,015	23,688
Manufacturing	768	22,638	362,552	16,015
Sugar mills	13	3,677	66,874	18,187
Pineapple canning	3	3,156	40,156	12,724
Other food processing	187	4,489	65,772	14,652
Other manufacturing	565	11,316	189,750	16,768
Transportation	842	21,791	415,039	19,046
Communications	89	7,458	172,991	23,195
Utilities	40	2,566	69,480	27,077
Wholesale trade: Durable	842	8,778	169,857	19,350
Non-durable	931	10,048	150,197	14,948
Retail trade	4,602	86,810	818,403	9,428
Eating and drinking places	1,493	34,508	235,055	6,812
Other retail trade	3,109	52,302	583,348	11,153
Finance, insurance, real estate	2,905	31,663	493,709	15,593
Services	7,188	99,609	1,332,901	13,381
Hotels, rooming houses, etc.	180	26,475	291,344	11,004
Medical and other health services	1,588	19,982	369,192	18,476
Other services	5,420	53,152	672,365	12,650
Nonclassifiable establishments	52	271	2,915	10,756

Source: Hawaii State Department of Labor and Industrial Relations, 1982 Employment and Payrolls in Hawaii (September 1983).

Table 306.-- AVERAGE ANNUAL WAGE AND SALARY PAYMENTS PER WORKER, BY CLASS OF WORKER: 1972 AND 1982

Class of worker	1972: current dollars	1982		Percent change, 1972-1982	
		Current dollars	1972 dollars 1/	Current dollars	1972 dollars
All classes ..	7,989	15,367	6,149	92.4	-23.0
Federal	11,219	23,263	9,309	107.4	-17.0
State 2/	8,841	17,258	6,906	95.2	-21.9
County	8,970	17,703	7,084	97.4	-21.0
Private	7,383	14,223	5,691	92.6	-22.9

1/ Deflated by percent change in annual intermediate budget for a four-person Honolulu family (149.9 percent, from $13,617 to $34,032), as reported in Hawaii State Department of Planning and Economic Development, Comparative Family Budgets for Honolulu and the United States, 1967-1982 (Statistical Memorandum 83-3, April 7, 1983), pp. 3 and 7.

2/ Average for 1972 is overstated because of erroneous inclusion of uncovered student workers, omitted in 1982 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii, 1972, p. 1, as corrected, and 1982 Employment and Payrolls in Hawaii, p. 2.

Table 307.-- LABOR TURNOVER RATES IN MANUFACTURING: 1972 TO 1981

[Turnover per 100 wage and salary employees. Excludes pineapple canning. This survey was discontinued in 1982.]

Year	Accessions			Separations		
	Total	New hires	Re-calls 1/	Total	Quits	Layoffs
1972	2.2	1.8	...	2.4	1.2	0.4
1973	2.5	2.1	...	2.4	1.4	0.3
1974	2.3	1.8	...	2.3	1.2	0.5
1975	2.2	1.6	...	2.2	1.0	0.6
1976	2.4	1.3	0.6	2.5	0.8	1.0
1977	2.5	1.5	0.6	2.4	0.9	0.7
1978	2.9	1.4	1.2	2.9	1.0	1.3
1979	3.2	1.8	1.0	3.4	1.2	1.4
1980	2.9	1.6	1.0	3.3	1.1	1.6
1981	2.3	1.2	0.8	2.5	0.7	1.2

1/ Not available before 1976.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised May 1982.

Table 308.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1971 TO 1982

Subject 1/	1971	1972	1973	1974	1975	1976
Average weekly earnings (dollars)						
Contract construction	223.50	243.54	257.04	274.78	296.00	318.56
Manufacturing	133.73	141.81	156.81	167.06	182.99	200.46
Food and kindred products ..	123.93	127.83	142.21	157.87	172.00	189.12
Communication and utilities ..	181.04	192.29	211.25	227.98	262.88	288.58
Trade 2/	100.87	104.94	113.90	120.96	129.03	138.60
Wholesale trade	133.73	144.78	156.11	169.22	181.06	196.60
Retail trade 2/	87.57	91.40	99.84	104.62	111.16	119.25
Finance	118.08	118.88	118.40	128.20	148.13	164.10
Hotels	77.43	80.35	88.13	95.99	104.65	128.61
Laundries	76.47	77.85	83.77	89.11	96.17	105.95
Average weekly hours						
Contract construction	37.5	37.7	37.8	37.9	37.9	36.2
Manufacturing	39.8	39.5	39.9	39.4	39.1	39.0
Food and kindred products ..	40.5	39.7	40.4	40.9	40.0	39.4
Communication and utilities ..	42.2	41.0	41.1	41.3	42.4	42.5
Trade 2/	33.4	33.0	33.5	33.6	33.0	33.0
Wholesale trade	38.1	38.0	37.8	38.9	37.8	38.1
Retail trade 2/	31.5	31.3	32.0	31.8	31.4	31.3
Finance	...	...	...	...	...	...
Hotels	29.0	27.9	28.8	29.0	29.9	31.6
Laundries	35.9	34.6	35.8	35.5	35.1	35.2
Average hourly earnings (dollars)						
Contract construction	5.96	6.46	6.80	7.25	7.81	8.80
Manufacturing	3.36	3.59	3.93	4.24	4.68	5.14
Food and kindred products ..	3.06	3.22	3.52	3.86	4.30	4.80
Communication and utilities ..	4.29	4.69	5.14	5.52	6.20	6.79
Trade 2/	3.02	3.18	3.40	3.60	3.91	4.20
Wholesale trade	3.51	3.81	4.13	4.35	4.79	5.16
Retail trade 2/	2.78	2.92	3.12	3.29	3.54	3.81
Finance	...	...	...	...	...	...
Hotels	2.67	2.88	3.06	3.31	3.50	4.07
Laundries	2.13	2.25	2.34	2.51	2.74	3.01

Continued on next page.

Table 308.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1971 TO 1982 — Con.

Subject 1/	1977	1978	1979	1980	1981	1982
Average weekly earnings (dollars)						
Contract construction	352.36	385.40	397.80	428.97	475.31	519.10
Manufacturing	209.38	227.74	244.35	258.17	289.90	301.68
Food and kindred products ..	188.33	204.72	217.74	238.26	274.31	281.86
Communication and utilities ..	311.28	352.54	378.35	421.16	433.70	486.41
Trade 2/	147.74	158.07	173.01	184.82	198.99	213.81
Wholesale trade	207.59	219.84	238.23	252.50	275.88	290.67
Retail trade 2/	128.93	138.47	151.69	162.30	174.27	189.21
Finance	164.11	166.48	174.83	185.58	212.64	222.49
Hotels	137.38	155.20	166.52	173.72	193.64	208.98
Laundries	110.66	129.60	144.77	151.25	161.55	...
Average weekly hours						
Contract construction	35.7	36.6	36.0	36.2	36.2	35.8
Manufacturing	38.0	38.6	38.3	37.8	38.5	37.9
Food and kindred products ..	38.2	38.7	38.0	37.7	39.3	38.4
Communication and utilities ..	42.7	44.4	44.2	44.9	43.5	43.9
Trade 2/	33.2	33.0	33.4	33.3	33.0	33.2
Wholesale trade	38.3	38.3	38.3	38.2	38.0	37.7
Retail trade 2/	31.6	31.4	31.8	31.7	31.4	31.8
Finance	...	...	...	...	...	...
Hotels	31.8	32.4	31.9	31.3	32.6	32.5
Laundries	34.8	36.1	37.8	36.8	36.8	...
Average hourly earnings (dollars)						
Contract construction	9.87	10.53	11.05	11.85	13.13	14.50
Manufacturing	5.51	5.90	6.38	6.83	7.53	7.96
Food and kindred products ..	4.93	5.29	5.73	6.32	6.98	7.34
Communication and utilities ..	7.29	7.94	8.56	9.38	9.97	11.08
Trade 2/	4.45	4.79	5.18	5.55	6.03	6.44
Wholesale trade	5.42	5.74	6.22	6.61	7.26	7.71
Retail trade 2/	4.08	4.41	4.77	5.12	5.55	5.95
Finance	...	...	...	...	...	...
Hotels	4.32	4.79	5.22	5.55	5.94	6.43
Laundries	3.18	3.59	3.83	4.11	4.39	...

1/ Data through 1971 based on 1967 Standard Industrial Classification (SIC) code; beginning 1972, based on 1972 SIC.

2/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised May 1983.

Table 309.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1977 AND 1982

[In dollars.]

Job classification	State average		Islands: 1982			
	1977	1982	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES						
Junior typist	614	903	...	903	...	...
Clerk-stenographer	755	1,194	...	1,164	...	...
Secretary	832	1,199	1,200	1,195	1,233	1,210
Data entry operator	732	1,004	1,097	989	1,134	1,202
Bookkeeper, full-charge	956	1,453	...	1,413	1,560	...
Engineering drafting technician	1,061	1,648	...	1,625	...	...
Hospital attendant	632	939	913	947	932	886
Staff nurse	1,074	1,669	1,715	1,666	1,737	1,764
HOURLY RATES						
Housekeeper	3.537	5.193	5.155	5.244	5.205	4.859
Cook, general	5.406	7.505	8.017	7.287	7.881	7.880
Waiter/waitress	2.436	3.377	3.406	3.361	3.446	3.350
Laborer (light)	4.328	6.360	6.297	6.401	6.370	6.102
Carpenter (maintenance)	6.163	9.075	9.246	9.170	8.843	8.915
Electrician (maintenance) ...	7.257	10.327	9.107	10.811	9.572	10.290
Automotive mechanic	6.596	9.543	9.213	10.248	8.903	9.194
Truck driver (1 1/2-5 tons) .	5.299	7.708	7.498	8.019	7.118	7.668

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 310.-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1983

[In dollars per hour.]

Effective date	Oahu	Other islands
1942: April 1 1/	0.25	0.20
1943: July 1	0.30	0.25
1945: July 1	0.40	0.40
1953: July 1	0.65	0.55
1955: July 1	0.75	0.65
1957: July 1	0.90	0.85
1958: July 1	1.00	1.00
1962: July 1	1.15	1.15
1964: January 1	1.25	1.25
1969: July 1	1.40	1.40
1970: July 1	1.60	1.60
1974: July 1	2.00	2.00
1975: July 1	2.40	2.40
1978: July 1	2.65	2.65
1979: July 1	2.90	2.90
1980: July 1	3.10	3.10
1981: July 1 2/	3.35	3.35

1/ Inception of minimum wage law.

2/ Currently in effect as of July 1, 1983.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 311.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1982

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	7,284	6,988	118
1975	9,425	7,607	9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,495	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,285	5,250	123
1980	5,633	5,211	5,196	4,956	95
1981	5,619	5,485	4,552	4,396	80
1982	5,372	5,372	5,259	4,848	90

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (July 1982), p. 27 and p. 48; and records.

Table 312.-- DISABILITY CHARACTERISTICS, BY COUNTIES: 1980

Kind of disability	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
WORK DISABILITY STATUS						
Noninstitutional persons 16 to 64 years	644,993	57,739	517,509	107	24,191	45,447
With a work disability	39,181	4,577	29,352	30	1,328	2,894
Not in labor force	21,515	2,826	16,531	18	663	1,477
Prevented from working	16,455	2,177	12,556	8	551	1,163
PUBLIC TRANSPORTATION DISABILITY STATUS						
Noninstitutional persons 16 to 64 years	644,993	57,739	517,509	107	24,191	45,447
With a public transportation disability	7,700	1,014	5,938	3	246	499
Noninstitutional persons 65 years and over	72,917	8,967	53,019	37	4,142	6,752
With a public transportation disability	8,503	840	6,595	10	512	546

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2-13 (September 1982), table P-2.

Table 313.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1972 TO 1982

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1972	34,901	59.93	45	5.4	18,773
1973	36,277	59.06	61	7.2	19,548
1974	37,646	60.47	72	8.3	18,341
1975	40,435	62.53	59	6.7	22,503
1976	38,721	58.60	39	4.3	27,760
1977	37,393	54.76	50	5.5	23,652
1978	38,869	54.10	48	5.2	32,847
1979	43,057	57.01	49	5.2	42,573
1980	47,725	62.01	49	5.1	55,331
1981	44,320	57.50	36	3.7	66,950
1982	40,521	53.19	47	4.7	90,778

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population, July 1, from DPED Statistical Report 147 (for 1971-1979) and DPED Statistical Memorandum 83-4 (for 1980-1982).

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 314.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1980 AND 1981

[Data exclude agricultural employers with fewer than 11 employees.]

Subject	1980 total	1981		
		Total	Injuries	Illnesses
Recordable cases	29,240	28,524	28,051	473
Lost workday cases	16,029	14,715	14,466	249
Lost workdays	223,610	212,784	209,121	3,663
Per lost workday case	14	14	14	15
Nonfatal cases without lost workdays.	13,168	13,788	13,569	219
Incidence per 100 full-time workers	11.5	11.1	11.0	0.2
Agriculture	20.0	22.0	21.2	0.8
Mining	3.7	2.4	2.4	0
Construction	30.7	28.9	28.5	0.4
Manufacturing	15.8	15.4	15.2	0.2
Transportation, public utilities	13.6	13.4	13.2	0.2
Wholesale and retail trade	9.1	9.3	9.2	0.1
Finance, insurance, real estate	3.5	3.1	3.1	(Z)
Services	8.5	8.3	8.1	0.2

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1981 Occupational Injuries and Illnesses Survey, State of Hawaii.

Table 315.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1956 TO 1980

[Numbers in thousands. This series was discontinued after 1980.]

Year	Total unions and associations		Labor unions				Employee associations 1/
	Number	Percent 2/	Total	Affiliated with AFL-CIO	Unaffiliated		
					National	Local unions	
1956 3/	(NA)	(NA)	35	10	25	(NA)	(NA)
1958 3/	(NA)	(NA)	36	13	24	(NA)	(NA)
1964 3/	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14
1980 4/	113	28.0	(NA)	(NA)	(NA)	(NA)	(NA)

Z Fewer than 500.

NA Not available.

1/ Professional and State employee associations.

2/ Total union and association membership as a percent of nonagricultural employment. Union membership as a percent of nonagricultural employment was: 1964, 23.6; 1966, 26.6; 1970, 30.3; and 1974, 38.7.

3/ Data limited to national and international unions.

4/ Not tabulated separately for unions and employee associations.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Handbook of Labor Statistics 1978* (Bulletin 2000, 1979), p. 504, and data supplied February 25, 1980 and March 12, 1982.

Table 316.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1982

[As of December 31.]

Year	Total	State employees	County employees
1973 1/	35,293	26,453	8,840
1974 2/	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	40,190	30,083	10,107
1978	40,760	30,360	10,400
1979	40,026	30,123	9,903
1980	40,511	30,609	9,902
1981	41,132	31,184	9,948
1982	41,948	31,629	10,319
Collective bargaining agent (union): 1982			
HGEA	16,985	13,161	3,824
UPW	9,564	6,464	3,100
HSTA	9,060	9,060	-
UHPA (UH faculty)	2,798	2,798	-
SHOPO (police officers)	2,065	-	2,065
HFFA (firefighters)	1,476	146	1,330

1/ As of February 1, 1974 for City and County of Honolulu; as of January 15, 1974 for Hawaii County; as of January 23, 1974 for Kauai County.

2/ As of January 15, 1975 for the counties.

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 6-20.

Table 317.-- WORK STOPPAGES: 1960 TO 1982

[Estimated by U.S. Bureau of Labor Statistics. Includes stoppages involving six or more workers through 1981 but limited to stoppages involving 1,000 or more workers thereafter.]

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977	8	14,700	666,000	0.74
1978	18	12,400	99,700	0.11
1979	12	11,900	274,800	0.27
1980	9	6,900	138,500	0.14
1981	7	700	14,000	0.01
1982 2/	-	-	-	0

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Data limited to stoppages involving 1,000 or more workers and thus not comparable to statistics for earlier years.

Source: U.S. Bureau of Labor Statistics, records.

Table 318.-- WORK STOPPAGES: 1977 TO 1982

[As estimated by the Hawaii State Department of Labor and Industrial Relations. Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Beginning with 1982, these data also exclude stoppages not begun or in progress during the week containing the 12th of each month during the year. Due to definitional and timing differences, none of the data in this table are exactly comparable to similar statistics compiled by the U.S. Bureau of Labor Statistics.]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1977	12	9,670	206,795
1978	14	1,774	33,990
1979	10	10,380	229,880
1980	9	6,886	138,490
1981	9	890	8,650
1982 3/	7	911	14,480

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Data limited to stoppages begun or in progress during the week containing the 12th of each month during the year. The statistics for 1982 are thus not exactly comparable to the figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Section 12

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, industrial income, personal income, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 8, 11, and 22; on industrial payrolls, in Sections 11, 15, 20, 22, and 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 9 and 10; on taxable income, in Section 8.

Gross state product in 1981 amounted to approximately $13 billion, or triple the 1970 total. The major sources of outside income to Hawaii in 1982 were defense expenditures ($1.7 billion), pineapple production ($206 million), sugar production ($352 million), and visitor expenditures ($3.7 billion). Personal income in 1982 was $11.6 billion, compared with $4.2 billion only ten years earlier, and per capita personal income was $11,652, more than twice the 1972 level. The per capita figure for Hawaii exceeded the national average by 5 percent, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1979, was $22,750; for unrelated individuals, the median was $7,097. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in February 1983 at $11,390. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent). Top wealthholders in 1976 included 39,000 persons with assets of $120,000 or more and 500 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Reporting Service, Hawaii State Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1982-83, Section 14.

Table 319.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1972 TO 1982

[In millions of dollars.]

Year	Total for four major industries	Value of production		Defense expenditures	Visitor expenditures 1/
		Raw sugar and molasses 2/	Fresh and processed pineapple		
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700

1/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

2/ Excludes government sugar support payments.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, *1982 Annual Research Report*, table 1.

Table 320.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1981

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,414.7	2,220.9	2,337	3,669
1959	1,570.2	2,329.7	2,524	3,745
1960	1,800.4	2,613.1	2,807	4,074
1961	1,883.1	2,682.5	2,859	4,073
1962	1,964.1	2,731.7	2,874	3,997
1963	2,100.1	2,789.0	3,078	4,088
1964	2,301.2	3,064.2	3,288	4,378
1965	2,531.1	3,370.3	3,596	4,788
1966	2,771.4	3,562.2	3,902	5,015
1967	2,990.5	3,728.8	4,139	5,161
1968	3,340.0	3,966.7	4,547	5,400
1969	3,745.7	4,227.7	4,993	5,635
1970	4,173.5	4,492.5	5,378	5,789
1971	4,454.8	4,592.6	5,562	5,734
1972	4,927.2	4,927.2	5,951	5,951
1973	5,601.7	5,513.5	6,582	6,478
1974	6,454.2	5,840.9	7,444	6,737
1975	6,909.7	5,956.6	7,816	6,738
1976	7,211.0	6,024.2	7,994	6,678
1977	8,152.9	6,590.9	8,901	7,196
1978	9,090.5	6,718.8	9,785	7,232
1979	10,650.7	7,211.0	11,211	7,590
1980	11,950.3	7,300.1	12,333	7,534
1981	12,953.3	7,164.4	13,231	7,318

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1981 (December 1983), table 1-2, pp. 20-21.

Table 321.-- PERSONAL INCOME AND ITS DISPOSITION: 1979 TO 1981

[In millions of current dollars.]

Item	1979	1980	1981
Personal income	8,719.0	9,900.1	10,836.3
Wage and salary disbursements	5,911.0	6,634.1	7,119.8
Other labor income	396.9	463.5	531.6
Proprietors' income	456.7	491.7	356.0
Rental income of persons	120.5	143.5	183.1
Dividends	204.8	234.3	275.0
Personal interest income	998.1	1,181.1	1,488.7
Net interest	914.7	1,092.1	1,393.6
Government interest, net	-58.0	-70.9	-82.4
State and local (includes state retirement fund)	-64.5	-77.5	-89.2
Federal	6.5	6.6	6.8
Interest paid by consumers to business	141.4	166.5	184.3
Transfer payments to persons	1,036.0	1,205.0	1,392.2
Government	991.3	1,155.3	1,338.3
State and local	206.9	223.2	235.3
Federal	784.4	932.1	1,103.0
Business	44.7	49.7	53.9
Less: Personal contributions for social insurance	405.0	453.0	510.0
State and local government programs	62.2	69.1	74.1
Federal government programs	342.8	383.9	435.9
Disposition of personal income			
Less: Personal tax and non-tax payments	1,037.7	1,158.1	1,207.0
State and local	502.5	533.5	587.4
Federal	535.2	624.6	619.6
Equals: Disposable personal income	7,681.3	8,742.0	9,629.3
Less: Personal outlays	7,158.1	8,311.4	9,302.4
Personal consumption expenditures	6,988.5	8,109.9	9,081.1
Interest paid by consumers to business	141.4	166.5	184.3
Unilateral transfer payments to persons, net	28.2	35.0	37.0
Equals: Personal saving	523.2	430.6	326.9

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1981 (December 1983), table 2-1, pp. 30-31.

Table 322.-- EXPENDITURES ON GROSS STATE PRODUCT: 1979 TO 1981

[In millions of current dollars.]

Item	1979	1980	1981
Gross state product	10,650.7	11,950.3	12,953.3
Personal consumption expenditures	6,987.2	8,110.1	9,081.1
Food, alcoholic beverages and tobacco	2,216.9	2,607.1	2,965.2
Clothing, accessories and jewelry	754.2	817.2	933.7
Personal care	103.7	113.5	127.7
Housing	2,378.4	2,747.5	2,975.6
Household operation	862.0	942.3	1,054.7
Medical care	681.0	770.4	899.9
Personal business	552.0	763.3	879.0
Transportation	908.1	1,025.0	1,180.0
Recreation	552.8	615.3	654.4
Private education and research	67.5	76.3	87.7
Religious and welfare activities	89.8	100.4	108.2
Foreign travel and other, net	-2,179.2	-2,468.2	-2,785.0
Gross private domestic investment	1,698.8	2,046.9	2,051.1
Fixed investment	1,543.1	1,866.1	1,875.8
Nonresidential	1,047.0	1,318.9	1,153.0
Structures	457.2	683.3	498.7
Producers' durable equipment	589.8p	635.6p	654.3p
Residential	496.1	547.2	722.8
Change in business inventories	155.7	180.8	175.3
Government purchases of goods and services	3,402.0	3,606.8	3,839.1
State and local	1,702.3	1,768.4	1,850.6
Compensation of employees	854.3	884.1	925.7
Other current expenditures	520.2	529.7	585.9
Equipment	26.8	27.5	28.9
Construction	300.9	327.1	310.1
Federal	1,699.8	1,838.4	1,988.5
Defense	1,587.5	1,725.5	1,866.5
Non-defense	112.3	112.9	122.0
Net exports	-1,668.1	-2,059.1	-2,146.3
Exports	4,520.2	5,127.9	5,308.7
Commodities	971.3	1,258.7	1,082.5
Services	998.3	981.0	1,011.2
Visitor and crew expenditures	2,550.6	2,888.2	3,215.0
Less: Imports	6,118.3	7,187.0	7,455.0
Commodities	4,515.9	5,381.3	5,569.7
Services	1,231.0	1,386.0	1,455.3
Out-of-state expenditures of Hawaii residents	371.4	419.7	430.0
Discrepancy and omissions	230.8	245.6	128.3

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1981 (December 1983), table 1-3, pp. 22-23, and table 2-1, pp. 30-31.

Table 323.-- EXPENDITURES ON GROSS STATE PRODUCT (1972 DOLLARS): 1979 TO 1981

[In millions of 1972 dollars.]

Item	1979	1980	1981
Gross state product	7,288.6	6,794.5	6,625.5
Personal consumption expenditures	4,272.0	4,450.9	4,609.7
Food, alcoholic beverages and tobacco	1,241.9	1,343.7	1,409.2
Clothing, accessories and jewelry	542.9	556.1	610.6
Personal care	60.7	59.8	62.4
Housing	1,580.3	1,618.1	1,617.2
Household operation	539.0	526.3	519.7
Medical care	363.8	378.6	396.5
Personal business	315.8	395.9	410.0
Transportation	609.6	562.4	634.5
Recreation	357.3	370.0	352.8
Private education and research	40.5	41.0	42.7
Religious and welfare activities	53.9	54.0	52.6
Foreign travel and other, net	-1,433.7	-1,455.0	-1,498.5
Gross private domestic investment	945.9	1,034.7	939.2
Fixed investment	852.4	937.5	854.0
Nonresidential	605.3	687.1	555.0
Structures	236.0	313.7	207.3
Producers' durable equipment	369.3	373.4	347.7
Residential	247.1	250.4	299.0
Change in business inventories	93.5	97.2	85.2
Government purchases of goods and services	2,002.0	1,903.8	1,873.4
State and local	994.0	926.5	879.4
Compensation of employees	512.8	475.1	450.0
Other current expenditures	312.2	284.6	284.8
Equipment	16.8	16.1	15.4
Construction	152.1	150.7	129.2
Federal	1,008.0	977.3	994.0
Defense	941.4	917.3	933.0
Non-defense	66.7	60.0	61.0
Net exports	-85.4	-241.2	-859.2
Exports	2,808.3	2,779.5	2,530.4
Commodities	561.3	584.4	454.8
Services	599.2	527.1	360.1
Visitor and crew expenditures	1,647.8	1,668.0	1,715.5
Less: Imports	2,893.7	3,020.7	3,389.6
Commodities	2,006.5	2,118.5	2,504.4
Services	673.0	689.2	668.2
Out-of-state expenditures of Hawaii residents	214.1	213.0	217.0
Discrepancy and omissions	154.0	132.3	62.4

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1981 (December 1983), table 1-4, pp. 24-25, and worksheets.

Table 324.-- CHARGES AGAINST GROSS STATE PRODUCT: 1979 TO 1981

[In millions of current dollars.]

Item	1979	1980	1981
Compensation of employees	6,797.7	7,589.5	8,179.9
Wage and salary disbursements	5,911.0	6,634.1	7,119.8
Supplements to wages and salaries	886.8	990.1	1,099.6
Employer contributions for social insurance	489.7	529.7	601.9
State and local government programs	77.2	86.4	95.6
Federal government programs	412.5	443.3	506.4
Other labor income	396.9	463.5	531.6
Proprietors' income	456.7	491.7	356.0
Rental income of persons	120.5	143.5	183.1
Corporate profits before tax	636.1	713.3	779.8
Profits tax	206.0	217.1	200.0
State and local tax	37.3	47.6	52.7
Federal tax	168.7	169.5	147.3
Profits after tax	430.1	496.2	579.7
Dividends	204.8	234.3	275.0
Undistributed profits	225.3	287.6	346.5
Net interest	914.7	1,092.1	1,393.6
Personal interest income	998.1	1,181.1	1,488.7
Less: Government interest, net	-58.0	-70.9	-82.4
State and local (includes state retirement fund)	-64.5	-77.5	-89.2
Federal	6.5	6.6	6.8
Less: Interest paid by consumers to business	141.4	166.5	184.3
Net state income	8,925.6	10,093.6	11,007.6
Business transfer payments	44.7	49.7	53.9
Indirect business tax and non-tax, state and local	822.4	873.1	898.9
Less: Subsidies less current surplus of state and local government enterprises	-14.5	-15.7	-17.0
Indirect business tax and non-tax, Federal	50.9	48.3	46.5
Less: Subsidies less current surplus of Federal government enterprises	-84.0	-90.4	-110.9
Net state product	9,942.1	11,170.8	12,134.8
Capital consumption allowances	708.6	779.5	818.5
Gross state product	10,650.7	11,950.3	12,953.3

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1981 (December 1983), table 1-2, pp. 20-21, and tables 2-1, pp. 30-31.

Table 325.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1970 TO 1982

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1970 ...	3,566	2,974	4,674	3,899	118	115
1971 ...	3,823	3,235	4,830	4,087	116	113
1972 ...	4,178	3,477	5,107	4,250	113	111
1973 ...	4,650	3,885	5,524	4,615	110	107
1974 ...	5,298	4,452	6,174	5,188	113	111
1975 ...	5,785	5,000	6,612	5,714	113	113
1976 ...	6,223	5,332	6,973	5,975	110	109
1977 ...	6,975	5,961	7,617	6,509	109	109
1978 ...	7,782	6,638	8,378	7,146	108	108
1979 ...	8,719	7,402	9,177	7,791	106	106
1980 ...	9,900	8,404	10,222	8,677	108	108
1981 ...	10,836	9,184	11,068	9,380	105	105
1982 ...	11,579	9,936	11,652	9,999	105	107

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1983.

Table 326.-- PERSONAL INCOME BY MAJOR SOURCES: 1977 TO 1982

[In millions of dollars.]

Item	1977	1978	1979	1980	1981	1982
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	4,799	5,340	5,911	6,634	7,120	7,609
Other labor income	314	363	397	463	532	593
Proprietors income	351	390	457	492	356	334
Farm	38	40	42	79	32	19
Nonfarm	313	350	414	413	324	315
By industry:						
Farm	157	167	189	293	235	252
Nonfarm	5,307	5,926	6,575	7,296	7,772	8,283
Private	3,422	3,886	4,464	4,937	5,221	5,415
Government and govt. enterprises	1,886	2,040	2,111	2,359	2,551	2,868
Federal, civilian	512	565	599	662	713	792
Federal military	680	726	747	818	912	1,056
State and local	694	749	765	879	925	1,021
Derivation of personal income						
Labor and proprietors income	5,464	6,093	6,765	7,589	8,008	8,536
Less: Personal contributions for social insurance	311	350	405	453	510	546
Net labor and proprietors income .	5,153	5,743	6,360	7,136	7,498	7,990
Plus: Dividends, interest, and rent	946	1,103	1,323	1,559	1,947	2,070
Plus: Transfer payments	877	937	1,036	1,205	1,392	1,520
Personal income	6,975	7,782	8,719	9,900	10,837	11,579

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1983.

Table 327.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1981

Year	State total	City and County of Honolulu	Hawaii	Kauai	Maui
Total: 2/					
1969	3,114	2,633	217	104	161
1970	3,566	3,011	258	113	184
1971	3,823	3,214	285	122	202
1972	4,178	3,522	309	129	218
1973	4,650	3,915	341	146	248
1974	5,298	4,363	458	180	297
1975	5,785	4,800	464	186	336
1976	6,223	5,159	487	201	375
1977	6,975	5,786	532	227	429
1978	7,782	6,436	597	258	490
1979	8,719	7,184	673	294	568
1980	9,861	8,107	771	335	648
1981	10,818	8,877	851	372	719
Per capita: 2/					
1969	4,191	4,363	3,440	3,448	3,462
1970	4,674	4,827	4,059	3,803	4,007
1971	4,830	5,077	3,882	3,681	3,897
1972	5,107	5,297	4,425	4,034	4,240
1973	5,524	5,726	4,678	4,501	4,702
1974	6,174	6,250	6,196	5,545	5,531
1975	6,612	6,781	6,005	5,581	5,933
1976	6,973	7,196	6,045	5,791	6,239
1977	7,617	7,873	6,439	6,417	6,842
1978	8,378	8,692	6,970	7,043	7,430
1979	9,177	9,535	7,559	7,723	8,173
1980	10,182	10,601	8,312	8,522	9,048
1981	11,032	11,553	8,728	9,132	9,702

1/ In millions of dollars.
2/ In dollars.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1982, and April 1983.

Table 328.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS DURING PRECEDING YEAR: 1950 TO 1980

[In dollars.]

Year	Households	Families	Unrelated individuals	Persons with income 1/	
				Male	Female
1950	(NA)	3,568	1,583	2,340	1,247
1960	(NA)	6,366	1,998	3,753	1,796
1970	10,675	11,664	2,981	6,528	3,222
1976 2/	15,991	17,770	6,180	9,489	4,082
1980	20,473	22,750	7,097	11,505	6,581

NA Not available.

1/ 14 years old and over through 1976, and 15 years old and over in 1980.

2/ Excludes persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1950 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1960 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1970 and 1980 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 329.-- INCOME OF HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS IN 1979, BY COUNTIES: 1980

[Data refer to the 1979 income of households, families, and individuals surveyed in 1980.]

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Households	294,934	29,257	230,931	71	12,152	22,523
Less than $5,000	24,433	3,629	17,631	34	992	2,147
$5,000 to $7,499	18,775	2,523	13,771	5	888	1,588
$7,500 to $9,999	21,209	2,237	16,663	8	739	1,562
$10,000 to $14,999	41,604	4,603	32,320	12	1,896	2,773
$15,000 to $19,999	37,836	4,090	28,833	3	1,867	3,043
$20,000 to $24,999	34,842	3,602	26,768	4	1,585	2,883
$25,000 to $34,999	52,585	4,437	41,728	2	2,280	4,138
$35,000 to $49,999	39,955	2,585	33,443	3	1,245	2,679
$50,000 or more	23,695	1,551	19,774	–	660	1,710
Median ....dol..	20,473	16,975	21,077	5,750	19,066	20,237
Mean ....dol..	24,519	20,398	25,180	9,375	22,329	24,317
Families	227,974	22,825	178,516	30	9,687	16,916
Less than $5,000	11,533	1,613	8,603	6	427	884
$5,000 to $7,499	12,195	1,715	8,920	1	648	911
$7,500 to $9,999	15,068	1,742	11,817	4	595	910
$10,000 to $14,999	29,796	3,542	22,815	12	1,412	2,015
$15,000 to $19,999	28,957	3,384	21,572	3	1,528	2,470
$20,000 to $24,999	28,013	3,108	21,234	–	1,360	2,311
$25,000 to $34,999	45,089	3,972	35,482	2	2,036	3,597
$35,000 to $49,999	36,236	2,388	30,450	2	1,082	2,314
$50,000 or more	21,087	1,361	17,623	–	599	1,504
Median ....dol..	22,750	19,132	23,554	11,667	20,882	22,579
Mean ....dol..	26,629	22,347	27,318	13,773	23,923	26,700

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Table 329.-- INCOME OF HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS IN 1979, BY COUNTIES: 1980 -- Con.

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Unrelated individuals 15 years and over	136,692	10,782	112,303	86	4,028	9,493
Less than $2,000	17,492	2,063	13,797	13	512	1,107
$2,000 to $2,999	7,698	1,096	5,713	17	256	616
$3,000 to $4,999	16,598	1,790	12,795	14	627	1,372
$5,000 to $7,999	34,234	1,839	29,841	4	650	1,893
$8,000 to $9,999	13,112	693	11,005	8	405	999
$10,000 to $14,999	21,340	1,613	17,209	21	759	1,738
$15,000 to $24,999	18,037	1,219	14,972	9	593	1,244
$25,000 to $49,999	6,841	339	5,866	-	199	437
$50,000 or more	1,340	130	1,105	-	27	87
Median ....dol..	7,097	5,620	7,168	4,833	7,814	7,567
Mean ....dol..	9,947	8,341	10,067	7,182	9,993	10,432
Per capita income ....dol..	7,740	6,554	7,912	6,838	7,022	7,818

Source: U.S. Bureau of the Census, 1980 Census of Population General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 71 and 180.

Table 330.-- ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1982

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Data refer to income during previous 12 months of families and individuals surveyed during 1982.]

Annual money income before taxes	Families 1/			Unrelated individuals
	Total 2/	Military	Civilian	
All levels	239,324	26,679	212,368	91,641
Under $5,000	5,660	388	5,272	10,006
$5,000 to $9,999	21,653	2,985	18,668	20,220
$10,000 to $14,999	29,985	6,526	23,459	15,986
$15,000 to $19,999	26,190	4,306	21,884	10,398
$20,000 to $24,999	26,770	3,317	23,453	5,867
$25,000 to $29,999	24,107	2,804	21,304	4,539
$30,000 to $34,999	22,340	2,069	20,272	2,283
$35,000 to $39,999	13,564	1,000	12,563	1,495
$40,000 and over	38,085	1,656	36,429	2,988
Not reported	30,970	1,629	29,064	17,860
Median income (dollars)	23,864	18,049	24,769	12,084

1/ By military status of family head.

2/ Includes families with military status not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 331.-- POVERTY STATUS IN 1979, BY COUNTIES: 1981

[Based on national poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of impoverished persons and families in Hawaii. Data refer to poverty status in 1979 of persons surveyed in 1981.]

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
ALL INCOME LEVELS IN 1979						
Families	227,974	22,825	178,516	31	9,687	16,916
With related children under 18 years	133,683	13,136	115,194	-	5,615	9,838
With related children 5 to 17 years	114,173	11,217	81,579	-	4,456	7,921
Female householder, no husband present	28,514	2,911	22,695	-	883	2,136
With related children under 18 years	19,559	2,131	15,391	-	636	1,512
With related children under 6 years	8,724	1,111	6,684	-	289	751
Householder 65 years and over	29,316	3,793	21,818	7	1,851	2,847
Unrelated individuals for whom poverty status is determined	117,787	11,278	83,981	86	3,993	9,451
65 years and over	15,528	1,926	11,278	25	792	1,517
Persons for whom poverty status is determined	927,132	91,711	727,356	144	38,658	71,163
Related children under 18 years	269,853	27,589	211,154	-	11,638	21,572
Related children 5 to 17 years	193,769	19,365	151,278	-	8,316	14,821
61 years and over	111,719	13,255	81,523	69	5,865	11,117
65 years and over	72,917	8,967	53,119	37	4,142	6,752

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Table 331.-- POVERTY STATUS IN 1979, BY COUNTIES: 1981 -- Con.

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
INCOME IN 1979 BELOW POVERTY LEVEL						
Families	17,711	2,345	13,415	4	667	1,279
Percent below poverty level	7.8	11.3	7.5	...	6.9	7.6
With related children under 18 years	14,545	1,911	11,111	-	512	1,123
With related children 5 to 17 years	11,476	1,316	8,119	-	361	791
Female householder, no husband present	7,985	915	6,261	-	249	571
With related children under 18 years	7,331	834	5,754	-	233	519
With related children under 6 years	4,441	544	3,439	-	139	318
Householder 65 years and over	1,673	227	1,168	1	116	171
Unrelated individuals for whom poverty status is determined	24,775	3,519	17,889	38	1,145	2,284
Percent below poverty level	23.1	34.2	21.3	...	26.2	24.2
65 years and over	4,927	722	3,349	25	297	534
Persons for whom poverty status is determined	91,618	11,993	69,435	46	3,428	6,716
Percent below poverty level	9.9	13.2	9.5	31.9	8.9	9.6
Related children under 18 years	35,113	4,295	27,335	-	1,134	2,339
Related children 5 to 17 years	22,639	2,528	17,794	-	726	1,591
61 years and over	9,921	1,398	6,911	31	568	1,124
65 years and over	7,654	1,197	5,249	26	497	785

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Table 331.-- POVERTY STATUS IN 1979, BY COUNTIES: 1981 -- Con.

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL						
Percent of persons for whom poverty status is determined:						
Below 75 percent of poverty level	6.1	7.9	5.9	24.3	5.1	5.5
Below 125 percent of poverty level	14.4	21.1	13.9	37.5	12.6	12.9
Below 151 percent of poverty level	19.1	25.7	18.4	38.9	18.4	16.5
Below 211 percent of poverty level	29.1	37.5	28.1	46.5	32.3	26.2

Source: U.S. Bureau of the Census, 1981 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, PHC81-S2-13 (September 1982), table P-4.

Table 332.-- POVERTY INCOME GUIDELINES: FEBRUARY 17, 1983

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services, effective February 17, 1983, to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration.]

Size of family unit	Poverty guideline
1	5,600
2	7,530
3	9,460
4 1/	11,390
5	13,320
6	15,250
7	17,180
8 2/	19,110

1/ Corresponding levels for four-person families elsewhere in the United States were $9,900 on the Mainland and $12,380 in Alaska.

2/ For larger families, add $1,930 for each additional member.

Source: Department of Health and Human Services, "Annual Revision of Poverty Income Guidelines," Federal Register, Vol. 48, No. 34 (February 17, 1983), pp. 7010-7011.

Table 333.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

[Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors. For more detailed breakdowns, see the 1981 Data Book, table 286.]

Item	Average amount (dollars)
Family income:	
Before taxes	15,665
After taxes	13,055
Expenditure categories	
Current consumption expenses, total	9,506.14
Food, total	1,916.09
Food at home	1,292.73
Food away from home	590.44
Meals as pay	32.93
Alcoholic beverages	129.93
Tobacco products and smoking supplies	102.22
Housing, total	3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities,	256.40
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Domestic and other household services	151.06
Housefurnishings and equipment	449.17
Clothing	590.48
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62
Health care, total	513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72

Continued on next page.

Table 333.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Current consumption expenditures (continued)	
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips	372.57
Boats, aircraft, and wheel goods	25.68
Television	43.07
Pets, toys and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education	142.50
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Income and personal taxes	
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23
Rent received as pay	27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27
Self-employment income	$683.73
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68

Continued on next page.

Table 333.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Sources of income and personal taxes (continued)	
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	-595.92
Personal property and other personal taxes	-24.47
Other financial information	
Other money receipts	561.06
Net change in assets and liabilities 1/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	-526.71
Estimated market value of owned home 2/	23,725.95
Estimated monthly rental value of owned home 2/	140.14

1/ Data represent end-of-year values.

2/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas*, Bulletin 1992 (1978), table 15, pp. 120-125.

Table 334.-- TOP WEALTHHOLDERS: 1962 TO 1976

[Top wealthholders are defined as persons with a gross estate of $60,000 or more through 1972 and $120,000 or more in 1976. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.]

Subject	Persons with a gross estate of $60,000 or more			Persons with a gross estate of $120,000 or more: 1976
	1962	1969	1972	
Number of top wealthholders	11,323	36,470	53,700	39,000
Total assets	1,908	6,327	7,866	7,436
Debts and mortgages 1/ .. Number	9,909	29,301	48,200	33,700
Amount	231	1,090	1,369	1,546
Net worth	1,677	5,236	6,497	5,890

1/ "Debts" in 1962.

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56; Statistics of Income - 1969, Personal Wealth (1973), pp. 57-58; Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33; and advance data from Statistics of Income Bulletin, Summer 1983.

Table 335.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1976

[Top wealthholders are defined as persons with gross assets of $120,000 or more. All figures in this table are estimates based on estate tax returns. Money amounts are in millions of dollars.]

Subject	Number or amount
Number of top wealthholders	39,000
Total assets	7,436
Debts and mortgages: Number	33,700
Amount	1,546
Net worth	5,890
Men: Number	32,000
Net worth	4,288
Women: Number	7,100
Net worth	1,603
Types of assets:	
Cash: Number	36,200
Amount	498
Corporate stock: Number	24,700
Amount	834
Bonds: Number	14,400
Amount	92
Life insurance equity: Number	36,100
Amount	208
Notes and mortgages: Number	3,100
Amount	166
Real estate: Number	37,700
Amount	4,191
Noncorporate business assets: Number	6,300
Amount	155
Other assets: Number	38,400
Amount	1,293
Millionaires as defined by:	
Total assets: Number	500
Amount	1,048
Net worth: Number	400
Amount	816

Source: U.S. Internal Revenue Service, "Trends in Personal Wealth, 1976-1981," SOI Bulletin, Summer 1983, pp. 1-26.

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 21, and 23.

In August 1983, the Honolulu all-items consumer price index for all urban consumers stood at 278.2, with the 1967 level equal to 100. The index had increased 1.5 percent in the preceding 12 months, 47.4 percent since August 1978, and 111.0 percent since September 1973. Prices have risen most rapidly since 1967 for medical care (265.5 percent) fuel and other utilities (230.1 percent), and food away from home (up 213.1 percent), and least for apparel and upkeep (up 109.1 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $12,157 in the Autumn of 1981, 19 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 and, like the latter, expressed as a percent of the 1967 annual average. The index for all urban consumers was further modified in February 1983, when the basis for measuring homeowners' costs was substantially altered.

Comparisons of family budgets between Honolulu and various Mainland communities have been published by the U.S. Bureau of Labor Statistics through the Fall of 1981. Although discontinued by BLS after 1981, this comparison was updated to 1982 by DPED. Similar comparisons by various agencies go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1983, and a 40-area comparison (later for 25 areas) for various dates since 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually from 1969 to 1981. Cost of living adjustments for Federal employees in Hawaii are based on the Honolulu-Washington comparisons, compiled by the U.S. Office of Personnel Management.

In addition to these data, the Bureau of Labor Statistics until 1978 published monthly and annual data on average Honolulu prices for a wide variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice and Wholesale Prices: Wholesale Fresh Fruits and Vegetables, both publications of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1982-83, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 336.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers. Annual average for 1967=100.]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ..	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 337.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: BIMONTHLY, 1977 TO 1983

[1967 average = 100.]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982 1/	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983 2/		270.4	272.8	271.4	273.5		
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982 1/	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983		274.8	276.9	273.4	278.2		

1/ February-August revised.

2/ Revised measurement of homeowners' costs introduced in February.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 338.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1978 TO 1982

[Unless otherwise specified, 1967=100.]

Group	1978	1979	1980	1981	1982
All items	184.1	204.6	228.5	252.4	267.6
Food and beverages	205.4	231.0	250.6	275.4	288.3
Food	212.8	239.8	259.9	285.8	298.8
Food at home	210.9	243.2	264.2	291.7	300.2
Cereals and bakery products	196.0	216.9	241.2	276.6	278.9
Meats, poultry, fish, and eggs	207.2	247.5	263.6	278.8	283.4
Meats, poultry, and fish	210.2	252.4	268.9	283.8	288.2
Dairy products	203.1	223.9	248.5	279.2	285.5
Fruits and vegetables	219.2	264.0	273.0	311.5	329.3
Other foods at home	235.7	259.0	294.8	331.1	344.5
Food away from home	218.9	236.1	254.4	277.8	299.7
Alcoholic beverages	143.4	155.5	171.4	186.8	200.0
Housing	171.7	192.7	216.6	240.3	255.0
Shelter	170.6	195.1	220.1	238.4	253.7
Rent, residential	174.1	187.3	206.1	224.8	240.7
Other rental costs	203.0	216.6	250.6	288.2	338.5
Homeownership	167.5	195.1	221.3	238.9	253.3
Property taxes	(NA)	(NA)	(NA)	107.5	118.7
Fuel and other utilities	201.0	209.0	243.1	339.1	352.3
Fuels	229.0	245.5	309.2	480.9	500.4
Fuel oil, coal, and bottled gas 1/	102.5	117.4	162.8	210.7	239.1
Gas (piped) and electricity	229.2	245.5	308.7	481.4	500.4
Household furnishings and operation	160.3	172.1	186.3	197.7	210.4
Apparel and upkeep	161.3	171.7	183.9	193.4	201.5
Apparel commodities	158.7	168.8	180.2	188.1	195.5
Men's and boys' apparel	158.7	164.9	177.8	190.0	197.2
Women's and girls' apparel	150.6	163.0	169.2	172.8	183.7
Footwear	163.7	171.1	182.0	188.4	187.4
Transportation	170.4	189.5	223.6	247.1	255.6
Private transportation	178.0	198.2	228.1	252.5	260.1
Public transportation	128.8	141.7	204.0	222.6	236.7
Medical care	221.0	238.7	258.6	289.4	324.3
Entertainment	177.7	187.5	201.5	224.8	246.7
Other goods and services	183.9	199.1	219.6	244.2	275.6
Personal care	189.9	205.9	228.5	246.5	276.4

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Table 338.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1978 TO 1982 — Con.

[Unless otherwise specified, 1967=100.]

Group	1978	1979	1980	1981	1982
Commodities	179.5	201.5	225.0	243.7	257.0
Food and beverages	205.4	231.0	250.6	275.4	288.3
Commodities less food and beverages	160.0	179.5	203.6	218.8	231.8
Nondurables less food and beverages	173.5	193.5	225.2	249.5	263.0
Durables	143.5	161.6	179.9	188.7	200.7
Services	192.3	211.0	235.7	267.0	284.9
Medical care services	229.6	247.7	268.8	301.1	338.7
Special indexes:					
All items less shelter	187.6	205.3	228.0	254.6	269.4
All items less medical care	181.7	202.2	226.2	249.7	263.9
All items less energy 2/	105.2	116.5	128.3	139.5	148.7
Energy 1/	100.4	117.7	156.8	205.5	207.8
Commodities less food	158.7	177.9	201.6	216.7	229.6
Nondurables less food	169.4	188.5	218.6	242.0	255.3
Nondurables	192.1	215.3	240.8	265.6	278.9
Services less rent	197.0	216.9	242.9	277.2	295.5
Services less medical care	185.3	203.6	228.1	258.8	274.6

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980, 1981, 1982, and 1983.

Table 339.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1978 TO 1982

[Unless otherwise specified, 1967=100.]

Group	1978	1979	1980	1981	1982
All items	184.1	204.5	228.7	252.8	268.1
Food and beverages	205.3	230.7	252.1	278.6	292.4
Food	212.8	239.6	262.0	289.8	303.7
Food at home	211.7	242.2	266.8	295.9	306.6
Cereals and bakery products	194.8	215.0	238.1	274.5	273.7
Meats, poultry, fish, and eggs	210.3	251.0	268.5	286.5	298.5
Meats, poultry, and fish	213.6	256.2	274.1	292.2	304.4
Dairy products	203.4	223.7	248.2	279.3	285.6
Fruits and vegetables	219.1	252.7	277.1	317.0	330.2
Other foods at home	235.1	259.0	297.8	335.2	352.1
Food away from home	216.8	235.3	253.7	277.3	298.9
Alcoholic beverages	142.8	154.1	166.6	181.8	195.3
Housing	171.4	191.6	213.3	236.3	251.9
Shelter	169.1	192.4	213.6	230.2	246.8
Rent, residential	174.1	187.3	206.1	224.8	240.7
Other rental costs	204.6	218.4	253.6	292.4	343.5
Homeownership	165.5	192.0	213.5	228.8	244.8
Property taxes	(NA)	(NA)	(NA)	106.3	114.8
Fuel and other utilities	201.1	209.2	243.4	338.9	352.2
Fuels	229.0	245.9	309.3	479.2	499.0
Fuel oil, coal, and bottled gas 1/	102.4	117.7	164.5	213.3	241.5
Gas (piped) and electricity	229.1	245.9	308.9	479.4	498.8
Household furnishings and operation	164.0	178.8	195.9	206.6	219.6
Apparel and upkeep	159.3	169.2	193.5	201.8	208.1
Apparel commodities	156.5	165.5	190.5	196.8	201.9
Men's and boys' apparel	161.1	167.3	179.4	188.7	198.0
Women's and girls' apparel	139.2	142.6	149.5	153.0	159.4
Footwear	156.8	158.4	165.1	171.4	172.8
Transportation	170.0	189.6	223.6	248.4	255.8
Private transportation	177.4	198.0	229.1	255.0	261.7
Public transportation	128.9	141.8	204.7	223.3	237.5
Medical care	223.3	239.5	261.3	296.0	332.5
Entertainment	182.0	198.4	215.7	236.0	257.7
Other goods and services	182.1	197.0	214.4	238.8	269.7
Personal care	185.6	199.4	214.8	234.8	261.3

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Table 339.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1978 TO 1982 -- Con.

[Unless otherwise specified, 1967=100.]

Group	1978	1979	1980	1981	1982
Commodities	179.5	201.8	227.1	246.5	259.5
Food and beverages	205.3	230.7	252.1	278.6	292.4
Commodities less food and beverages	159.8	179.7	206.1	221.3	233.3
Nondurables less food and beverages	173.5	195.2	232.5	257.4	269.8
Durables	143.1	161.0	178.8	186.7	197.9
Services	192.5	210.0	232.4	264.0	283.0
Medical care services	232.4	250.1	273.3	310.4	350.0
Special indexes:					
All items less shelter	188.2	207.0	232.2	259.3	273.7
All items less medical care	181.6	202.1	226.2	249.8	264.0
All items less energy 2/	105.2	116.3	127.9	139.1	148.5
Energy 1/	100.3	118.5	158.4	204.1	205.5
Commodities less food	158.5	178.0	203.7	218.8	230.8
Nondurables less food	169.3	189.9	224.7	248.6	260.9
Nondurables	192.2	216.0	244.9	270.9	284.1
Services less rent	197.1	215.7	239.0	273.6	293.3
Services less medical care	185.2	202.4	224.3	254.8	271.5

NA Not available.
1/ June 1978=100.
2/ December 1977=100.
Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980, 1981, 1982, and 1983.

Table 340.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1982

[Percent of all items. Data reflect the change in the treatment of homeowners' costs in the CPI-U.]

Expenditure category	CPI-U	CPI-W
All items	100.000	100.000
Food and beverages	21.610	22.525
Food	20.428	21.322
Food at home	13.855	15.108
Cereals and bakery products	1.596	1.871
Meats, poultry, fish, and eggs	4.937	5.585
Meats, poultry, and fish	4.710	5.353
Dairy products	1.443	1.483
Fruits and vegetables	2.382	2.271
Other foods at home	3.497	3.898
Food away from home	6.573	6.214
Alcoholic beverages	1.182	1.203
Housing	40.938	41.325
Shelter	27.483	28.657
Renters' costs	8.582	(NA)
Rent, residential	7.761	6.521
Other renters' costs	.821	.674
Homeownership	(NA)	21.462
Property taxes	(NA)	1.821
Homeowners' costs	17.987	(NA)
Owners' equivalent rent	17.733	(NA)
Fuel and other utilities	5.959	5.393
Fuels	4.488	4.081
Fuel oil, coal, and bottled gas	.067	.041
Fuel oil	.003	.000
Other fuels	.063	.038
Gas (piped) and electricity	4.421	4.041
Electricity	3.945	3.543
Utility (piped) gas	.476	.497
Household furnishings and operations	7.496	7.274
Apparel and upkeep	5.158	4.837
Apparel commodities	4.671	4.348
Men's and boys'	1.441	1.257
Women's and girls'	1.495	1.238
Footwear	.621	.533
Transportation	16.765	17.504
Private	14.562	15.687
Motor fuel	5.028	5.572
Public	2.203	1.817

Continued on next page.

Table 340.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1981 — Con.

Commodity and service group	CPI-U	CPI-W
Medical care	5.875	5.410
Entertainment	4.567	3.894
Other goods and services	5.087	4.505
Personal care	1.843	1.702
All items	100.000	100.000
Commodities	48.781	59.259
Food and beverages	21.610	22.525
Commodities less food and beverages	27.171	36.734
Nondurables less food and beverages	17.595	17.594
Durables	9.576	19.140
Services	51.219	40.741
Medical care services	5.070	4.652
Special indexes:		
All items less shelter	72.517	71.343
All items less medical care	94.125	94.590
All items less energy 1/	90.484	90.347
Energy 1/	9.516	9.653
Commodities less food	28.353	37.936
Nondurables less food	18.777	18.796
Nondurables	39.205	40.119
Services less rent	(NA)	34.220
Services less rent of shelter	24.944	(NA)
Services less medical care	46.149	36.089

NA Not available.

1/ Relative importances reflect a new definition of energy which excludes motor oil, coolant, and other products.

Source: U.S. Bureau of Labor Statistics, printout.

Table 341.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 3, 1982 AND JUNE 2, 1983.

[See headnote to following table.]

Item	Honolulu price (dollars)		Honolulu as percent of Mainland average 1/	
	1982	1983	1982	1983
Milk, homogenized, 1/2 gal.	1.67	1.49	158	141
Eggs, Grade A, large, 1 doz.	1.19	1.19*	165	163
Cheese, sharp, 10 oz.	2.55	2.79*	128	136
Margarine, 1 lb.	0.79*	0.95	146	170
Bread, 24 oz. loaf	0.83	1.03*	151	175
Flour, 5 lb.	0.99*	1.49*	99	146
Cereal, Special K, 12 oz.	2.15	2.25	140	136
Sugar, 5 lb.	1.69*	2.11	112	129
Instant coffee, 10 oz. jar	4.69	4.69	111	109
Beans, dry, 1 lb	0.99	0.75	187	170
Rice, 2 lb.	2.15	2.05	121	116
Mayonnaise, 1 qt.	1.59	1.55	114	107
Peanut butter, 12 oz. jar	2.23	2.09	131	134
Tuna, 6 1/2 oz. can	1.17	0.95	131	110
Evaporated milk, 13 oz. can	0.67	0.65*	129	123
Cling peach halves, 29 oz. can	0.99*	1.09	114	118
Pineapple, 20 oz. can	0.79*	0.99	100	116
Ice cream, 1/2 gal.	1.95*	1.99*	132	144
Frozen orange juice concen., 6 oz. ..	0.50*	0.65	102	135
Broccoli spears, frozen, 10 oz.	0.95	0.79	146	120
Rump roast, boneless, 1 lb.	2.99	2.69	129	123
Sirloin steak, bone in, 1 lb.	3.29*	3.19	113	117
Ground beef, 1 lb.	1.98	1.49*	140	115
Pork loin chops, 1 lb.	2.69	2.79*	125	121
Ham smoked, 1 lb.	1.49	1.59	122	137
Bacon, 1 lb.	1.89*	1.79*	89	92
Wieners, all meat, 1 lb.	1.49*	1.69	90	104
Chicken, whole broiler fryer, 1 lb. .	0.79	1.39	127	257
Potatoes, white, 5 lb.	1.89	1.89	148	175
Carrots, 1 lb.	0.39	0.39*	122	139
Cabbage, 1 lb.	0.29	0.20*	66	80
Lettuce, 1 head	0.74	0.59	119	97
Bananas, 1 lb.	0.55	0.69*	167	160
Tomatoes, 1 lb.	0.79	0.79	122	96
Oranges, 5 lb.	2.75	1.45*	153	104
Tax on above items	2.18	2.17	112	88

Footnotes and source on next page.

Table 341.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 3, 1982 AND JUNE 2, 1983 -- Con.

* Special sale price.

1/ Mainland averages based on data for 19 Mainland cities surveyed. These averages exclude Anchorage and Honolulu, also surveyed.

Source: Honolulu Advertiser, June 23, 1982, p. B-1, and June 24, 1983, p. D-1.

Table 342.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1983

[June data for a "market basket" of 35 common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979.]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93
1983: June 2	56.33	1	128.0	21	44.01

1/ Average excludes Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1.

Table 343.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1972 TO 1982

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
1978: Autumn	14,870	23,099	35,602	129	124	130
1979: Autumn	16,507	25,799	39,689	131	126	131
1980: Autumn	18,480	28,488	44,396	132	123	129
1981: Autumn	20,319	31,893	50,317	133	126	132
1982: Autumn 1/ .	21,534	34,032	53,793	135	128	135
RETIRED COUPLE						
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111
1978: Autumn	6,357	8,987	13,085	115	115	113
1979: Autumn	7,040	9,972	14,508	117	116	115
1980: Autumn	7,776	10,979	15,889	117	116	114
1981: Autumn 2/ .	8,665	12,157	17,576	120	119	117

1/ Estimated. The official series on comparative family budgets was discontinued by the Bureau of Labor Statistics following the release of the 1981 data.

2/ Last year available. This series was discontinued following the release of the 1981 data.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1982), *Three Budgets for a Retired Couple, Autumn 1981* (release USDL: 82-266, July 30, 1982), and corresponding BLS releases for earlier years; Hawaii State Department of Planning and Economic Development, *Comparative Family Budgets for Honolulu and the United States, 1967-1982* (Statistical Memorandum 83-3, April 7, 1983).

Table 344.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 3/	3,171	5,098	7,355	150	117	126
Renter costs 4/	3,171	3,991	5,836	150	146	136
Homeowner costs 5/	...	5,467	7,623	...	112	124
Housefurnishings and operations	851	1,395	2,499	121	116	110
Transportation 6/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 7/	1,583	1,590	1,657	110	110	110
Other family consumption 8/	749	1,378	2,323	116	115	118
Other items 9/	716	1,137	1,966	115	111	114
Social security and disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

See footnotes on next page.

Table 344.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1980 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

6/ Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

7/ Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

8/ Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

9/ Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 345.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes.]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing 2/	2,587	3,827	5,985	109	113	113
Shelter 3/	1,860	2,356	3,423	103	107	110
Renter costs 4/	2,383	3,293	4,520	147	155	140
Homeowner costs 5/	1,512	1,851	2,953	79	83	97
Housefurnishings, operations	727	1,471	2,396	126	123	118
Transportation 6/	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption 7/	327	545	1,119	119	119	124
Other items 8/	373	731	1,292	120	119	116

Footnotes and source on next page.

Table 345.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

4/ Includes average contract rent, heating fuel, gas electricity, water, specified equipment, and insurance on household contents.

5/ Includes property taxes, insurance on house and contents, water, refuse disposal, heating fuel, gas, electricity, specified equipment, and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

6/ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

7/ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

8/ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, _Three Budgets for a Retired Couple, Autumn 1981_ (release, USDL: 82-266, July 30, 1982).

Table 346.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1983

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
Indexes 2/				
Local retail:				
Private housing	121.7	114.6	120.9	113.1
Federal housing	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing	111.8	113.1	...	...
Federal housing	95.1	105.1	...	...
Allowance rates 3/				
Local retail:				
Private housing	22.5	15.0	20.0	12.5
Federal housing	5.0	7.5	12.5	0
Commissary, PX:				
Private housing	12.5	12.5	...	...
Federal housing	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Section 14

ELECTIONS

This section presents data on the number and characteristics of election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative bills.

About 405,000 persons were registered to vote in the general election of November 2, 1982, and more than 325,000 actually voted. The number voting amounted to 45 percent of the 716,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1982 primary and general elections (other than the presidential race) exceeded $10 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 28 active Neighborhood Board districts, and 299 election precincts.

Elective offices in Hawaii include the President and Vice President, 2 U.S. Senators, 2 U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1983 State Legislature, with 76 members, included 59 males, 34 persons under 40 years of age, 29 persons of Japanese ancestry, 14 persons born in places other than Hawaii, and 63 Democrats.

In its 1983 session, the State Legislature considered 3,119 bills; 311 were passed and 301 became law. The Legislature also considered 1,073 resolutions, of which 411 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1982-83, Section 16.

Table 347.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1980 AND 1982

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1980	1982	1980	1982	1980	1982
Federal offices:						
President and Vice President	...	...	2	-	2	2
U.S. Senate	...	...	1	1	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	-	2	2	2
State Senate	8	25	25	13	25	25
State House of Representatives	27	51	51	51	51	51
Board of Education	2	2	13	-	13	13
Office of Hawaiian Affairs	...	...	9	7	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	3	2	4	4
Council:						
Hawaii	...	...	9	-	9	9
Maui	...	...	9	-	9	9
Honolulu	9	9	-	9	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	3	-	3	3
Neighborhood Boards 3/	28	28	-	-	416	416

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, August 10, 1982.

Table 348.-- POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1982

[Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii.]

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960	371,000	49.7	49.2	Age, 1982	716,000
1962	390,000	...	49.9	18 to 24 years	138,000
1964	404,000	51.3	56.9	25 to 44 years	312,000
1966	417,000	...	49.9	45 to 64 years	181,000
1968	439,000	53.8	55.3	65 years and over ...	85,000
1970	473,000	...	44.0		
1972	547,000	49.4	50.3	Race, 1980 (census) ...	689,108
1974	586,000	...	44.3	White	237,332
1976	624,000	46.6	47.0	Black	12,871
1978	657,000	...	38.6	Amer. Indian	1,954
1980	696,000	43.5	40.3	Asian and Pacific Isl.	412,696
1982	716,000	...	41.6	Other races	24,255

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States; November 1980," Current Population Reports, Series P-25, No. 879, March 1980, and "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982. Percent casting votes in 1982 calculated by DPED.

Table 349.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1970 TO 1982

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age.]

Year	Primary elections		General elections		Special elections 1/	
	Registered	Voting	Registered	Voting	Registered	Voting
1970	39.1	28.0	40.4	34.3	...	...
1972	42.1	26.2	43.5	36.9	...	...
1974	41.2	29.2	42.4	33.7	...	...
1976	41.8	29.8	43.0	36.6	...	...
1978	44.5	33.2	45.4	33.6	39.6	13.7
1980	42.2	29.0	44.2	34.9	30.8	24.4
1982	41.0	29.0	43.1	34.7	36.4	24.2

1/ For delegates to the Constitutional Convention of 1978 and Board of Trustees of the Office of Hawaiian Affairs in 1980 and 1982. The ratios for the OHA elections are based on the estimated Hawaiian and Part Hawaiian population.

Source: Calculated from Office of the Lieutenant Governor, Result of Votes Cast for each election, and population estimates in present report, section 1.

Table 350.-- PERCENT OF CIVILIAN NONINSTITUTIONAL POPULATION, 18 YEARS OLD AND OVER, REPORTED REGISTERED AND VOTED: NOVEMBER 1982

[Based on a sample. Excludes armed forces, inmates of institutions, and Hawaii voters currently living out of State.]

Race	All persons 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
All races 1/ ..	660,000	60.6	1.7	54.3	1.7
White	203,000	64.9	3.0	59.3	3.1
Nonwhite 2/	457,000	...	...	...	...

1/ For the United States as a whole, 64.1 ± 0.2 percent were reported registered, and 48.5 ± 0.2 percent were reported voted.

2/ Not separately reported in source.

Source: U.S. Bureau of the Census, Release CB83-63, April 18, 1983.

Table 351.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1970 TO 1982

Type and date of election	Registered voters 1/			Votes cast 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
1972: Oct. 7	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5	333,527	(NA)	(NA)	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
Special elections: 3/					
1978: May 20	344,952	169,787	175,165	119,250	34.6
1980: Nov. 4	54,083	24,465	29,618	42,848	79.2
1982: Nov. 2	63,950	29,078	34,872	42,390	66.3

NA Not available.

1/ Data by sex not available for primary elections before 1976.

2/ Number voting excludes unregistered votes cast (overseas and nonresident).

3/ Constitutional convention of 1978; Office of Hawaiian Affairs, 1980 and 1982.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election and records.

Table 352.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1982

[Excludes persons registered for only the Office of Hawaiian Affairs election and not for the regular primary or general elections.]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	385,307	185,763	199,544	272,691	70.8
Hawaii	44,622	21,686	22,936	31,993	71.7
Maui	34,267	16,638	17,629	24,518	71.5
Honolulu	284,253	136,489	147,764	197,904	69.6
Kauai	22,165	10,950	11,215	18,276	82.5
GENERAL ELECTION					
State total ..	405,005	195,259	209,746	325,459	80.4
Hawaii	46,315	22,536	23,779	37,938	81.9
Maui	35,956	17,498	18,458	29,329	81.6
Honolulu	300,171	144,071	156,100	239,970	79.9
Kauai	22,563	11,154	11,409	18,222	80.8

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election.

Table 353.-- AGE, RACE, AND SEX OF REGISTERED VOTERS: OCTOBER 1982

Age and race	Both sexes	Male	Female
All registered voters	404,773	195,170	209,603
Age:			
Under 25 years	24,245	9,379	14,866
25 to 34 years	69,408	29,837	39,571
35 to 44 years	63,842	28,128	35,714
45 to 54 years	50,723	20,299	30,424
55 to 64 years	52,960	21,606	31,354
65 years and over	43,210	19,631	23,579
Not available	100,385	66,290	34,095
Average age (years)	45.27	45.49	45.12
Race (based on surname):			
Caucasian, except Portuguese ..	122,940	58,491	64,449
Chinese or Korean	38,665	19,080	19,585
Filipino	40,878	19,986	20,892
Japanese	121,969	59,844	62,125
Polynesian	22,535	10,628	11,907
Portuguese	28,698	13,727	14,971
Not available	29,088	13,414	15,674

Source: Voter Contact Services, records. Quoted with permission.

Table 354.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1970 TO 1982

Primary election	Total votes cast	Demo-cratic	Repub-lican	Other par-ties	Non-parti-san	Inval-idated
1970 1/ ..	202,401	159,135	43,253	-	13	-
1972 2/ ..	203,160	...	...	...	...	...
1974	235,982	199,992	35,867	123	-	-
1976	251,457	215,037	35,495	568	357	-
1978 3/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309

1/ Earliest year available.
2/ Not tabulated by party.
3/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown.

Table 355.-- PARTY OF VOTERS, BY COUNTIES: PRIMARY ELECTION, SEPTEMBER 18, 1982

Party	State total	Hawaii County	Maui County	City and Co. of Honolulu	Kauai County
Registered voters ...	385,307	44,622	34,267	284,253	22,165
Votes cast	272,691	31,993	24,518	197,904	18,276
Democratic	245,426	29,142	22,279	176,102	17,903
Independent Democratic .	12,397	752	545	10,988	112
Libertarian	284	37	26	197	24
Republican	13,262	1,905	1,435	9,726	196
Nonpartisan	1,013	120	159	693	41
Invalidated	309	37	74	198	-
Not voting	112,616	12,629	9,749	86,349	3,889

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, September 18, 1982, State of Hawaii, pp. 141-157.

Table 356.-- CAMPAIGN EXPENDITURES: 1982 ELECTIONS

[In dollars.]

Election and race	All candidates	Democrats	Republicans	Independent Democrats	All others 1/
PRIMARY 2/					
All races reported ..	6,389,437	4,887,923	1,092,873	387,100	21,541
U.S. Senator	237,391	236,913	478	-	-
U.S. Representative	117,113	117,113	-	-	-
Governor	2,571,227	1,737,044	500,920	333,213	(Z)
Lieutenant Governor	886,175	697,801	134,487	53,887	-
State Senator	539,323	422,602	116,196	-	525
State Representative	1,096,161	879,952	197,799	-	18,410
Mayor	232,238	201,626	30,612	-	-
County Council	709,809	594,872	112,381	-	2,556
GENERAL 3/					
All races reported ..	3,310,659	1,992,382	928,311	294,747	95,219
U.S. Senator	127,787	127,787	-	-	-
U.S. Representative	57,558	57,558	-	-	-
Governor	1,469,373	969,642	284,000	215,731	-
Lieutenant Governor	291,807	113,456	99,335	79,016	-
State Senator	280,874	171,813	109,061	-	-
State Representative	379,555	214,797	153,408	-	11,350
Mayor	174,012	78,041	95,971	-	-
County Council	458,590	259,288	186,536	-	12,766
Office of Hawaiian Affairs	71,103	-	-	-	71,103
TOTAL 4/					
All races reported ..	10,383,156	7,302,945	2,266,548	693,737	119,926
U.S. Senator	384,651	384,173	(Z)	-	..
U.S. Representative	182,122	182,122	-	-	-
Governor	4,162,841	2,808,340	799,408	555,043	(Z)
Lieutenant Governor	1,370,648	849,911	382,043	138,694	-
State Senator	905,857	647,107	258,225	-	525
State Representative	1,602,785	1,195,858	377,047	-	29,880
Mayor	462,744	312,656	150,088	-	-
County Council	1,237,781	922,778	299,259	-	15,744
Office of Hawaiian Affairs	73,727	-	-	-	73,727

Footnotes and source on next page.

Table 356.-- CAMPAIGN EXPENDITURES: 1982 ELECTIONS -- Con.

Z Less than $500.

1/ Libertarian or nonpartisan.

2/ Expenditures from January 1, 1982, through election day, September 18, 1982.

3/ Expenditures from January 1, 1982, through election day, November 2, 1982.

4/ Total includes primary and general expenditures, and supplemental expenditures made after election days through December 31, 1982.

Source: State Campaign Spending Commission, records.

Table 357.-- NUMBER OF PRECINCTS AND REGISTERED VOTERS, BY ISLANDS: GENERAL ELECTION, 1982

Island	Number of precincts	Registered voters	Voters per precinct
State total	299	405,005	1,355
Hawaii	54	46,315	858
Maui	31	31,998	1,032
Lanai	1	928	928
Molokai:			
Molokai District	4	2,912	728
Kalawao District	1	118	118
Oahu	190	300,171	1,580
Kauai	17	22,391	1,317
Niihau	1	172	172
Northwestern Hawaiian Islands 1/	-	-	...

1/ Included with the 5th Precinct of the 48th Representative District, in Kaneohe, Oahu.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, Tuesday, November 2, 1982, State of Hawaii.

Table 358.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 18, 1982

Office, party and candidate	Votes
U.S. SENATOR	
Republican:	
Clarence J. Brown	6,142
Al Shipley	3,279
Democratic:	
Spark Matsunaga	187,708
Independent Democratic:	
E. F Bernier-Nachtwey	5,312
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democratic:	
Cec Heftel	94,386
Libertarian:	
Rockne H. Johnson	109
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Nonpartisan:	
Greg Mills	282
Democratic:	
Daniel K. Akaka	96,385
Libertarian	
Amelia Lew Fritts	106
GOVERNOR	
Nonpartisan:	
Brada Ji Price	577
Republican:	
D. G. Anderson	11,997
Gabriel Juarez, Jr.	192
Jack J. Mahakian	206
Democratic:	
George R. Ariyoshi	128,993
Frank De Cambra	755
John Fritz	551
Joseph Johns, Sr.	483
Jean King	106,935
William Kuaiwa	1,374
Arthur Francis Stebbing	361
Independent Democratic:	
Frank F. Fasi	11,813

Continued on next page.

Table 358.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 18, 1982 -- Con.

Office, party and candidate	Votes
LIEUTENANT GOVERNOR	
Republican:	
Patricia Saiki	10,984
Leeto Whetetto	796
Democratic:	
Bernie Bicoy	21,383
Francis McMillen	5,486
Dennis O'Connor	101,562
John Waihee	105,895
Independent Democratic:	
Randy A. K. Piltz	7,270
MAYOR, COUNTY OF MAUI	
Republican:	
Hannibal Tavares	1,197
Democratic:	
Bill Eger	4,040
Bob Nakasone	13,031
Al Rodrigues	1,088
MAYOR, COUNTY OF KAUAI	
Republican:	
John Sousa	100
Democratic:	
Tony T. Kunimura	9,084
Joann Ai Yukimura	8,231

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, September 18, 1982, State of Hawaii.

Table 359.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1972 TO 1982

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1972	270,274	McGovern	101,409	Nixon	168,865	-
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
U.S. SENATOR						
1974	250,221	Inouye, D.	207,454	None	-	42,767
1976	302,092	Matsunaga	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D.	224,485	Brown	53,068	10,453
1982	306,410	Matsunaga	245,386	Brown	52,071	8,953
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1972	134,964	Matsunaga	73,826	Rohlfing	61,138	-
1974	120,617	Matsunaga	71,552	Paul	49,065	-
1976	137,602	Heftel	60,050	Rohlfing	53,745	23,807
1978	115,412	Heftel	84,552	Spillane	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
1982	149,907	Heftel	134,779	None	-	15,128
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1972	139,899	Mink	79,856	Hansen	60,043	-
1974	138,810	Mink	86,916	Coray	51,894	-
1976	156,099	Akaka	124,116	Inouye, H.	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
1982	148,008	Akaka	132,072	None	-	15,936
GOVERNOR						
1974	249,650	Ariyoshi	136,262	Crossley	113,388	-
1978	281,587	Ariyoshi	153,394	Leopold	124,610	3,583
1982	312,853	Ariyoshi	141,043	Anderson	81,507	89,303

Continued on next page.

Table 359.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1972 TO 1982 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1972	215,221	Fasi	111,376	Anderson, D.	103,845	-
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1972-1982.

Table 360.-- NEIGHBORHOOD BOARD ELECTIONS, OAHU: 1975 TO 1983

[First neighborhood board formed May 1975.]

Year	Number of boards		Board seats elected	Voters (ballots cast)	Votes cast 1/
	In operation, Dec. 31	Holding elections 2/			
1975	6	6	110	1,767	5,702
1976	12	8	118	24,308	58,787
1977	27	22	316	11,333	34,657
1978	28	3	48	10,967	26,156
1979 3/ ..	28	25	366	12,495	38,714
1981 4/ ..	28	28	416	48,745	178,042
1983	28	28	416	62,573	235,275

1/ 1976 total incomplete.
2/ One board held two elections in 1976.
3/ First use of mail-in ballots; 898 ballots cast and 2,555 votes cast.
4/ First simultaneous election, May 1, 1981; all mail-in ballots, 294,735 ballots mailed out.

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 361.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, 1982

Office, candidate and party 1/	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U.S. SENATOR					
Matsunaga (D)	245,386	27,888	22,196	180,550	14,752
Brown (R)	52,071	6,732	4,410	39,427	1,502
Bernier-Nachtwey (I) ..	8,953	988	591	7,066	308
REPRESENTATIVE TO CONGRESS, DISTRICT 1					
Heftel (D)	134,779	-	-	134,779	-
Johnson (L)	15,128	-	-	15,128	-
REPRESENTATIVE TO CONGRESS, DISTRICT 2					
Akaka (D)	132,072	30,396	23,890	62,176	15,610
Mills (N)	9,080	3,025	1,230	4,420	405
Fritts (L)	6,856	1,270	1,108	4,031	447
GOVERNOR/ LIEUTENANT GOVERNOR					
Ariyoshi/Waihee (D) ...	141,043	18,853	13,868	97,848	10,474
Fasi/Piltz (I)	89,303	6,798	6,923	72,334	3,248
Anderson/Saiki (R)	81,507	10,767	7,083	59,893	3,764
MAYOR, COUNTY OF MAUI					
Tavares (R)	15,789	-	15,789	-	-
Nakasone (D)	12,421	-	12,421	-	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D)	12,191	-	-	-	12,191
Sousa (R)	3,685	-	-	-	3,685

1/ D, Democrat; R, Republican; I, Independent; L, Libertarian; N, Non-partisan.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, Tuesday, November 2, 1982, State of Hawaii.

Table 362.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 2, 1982

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total 1/	63,950	29,078	34,872	42,390	66.3
Hawaii	8,457	3,863	4,594	5,970	70.6
Maui	7,353	3,479	3,874	4,960	67.5
Honolulu	44,704	20,115	24,589	28,996	64.9
Kauai	3,436	1,621	1,815	2,464	71.7

1/ Based on 1980 population estimates by race from the Hawaii Health Surveillance Program (shown in The State of Hawaii Data Book 1982, table 15), 36.4 percent of the Hawaiian and Part Hawaiian population registered for the OHA special election and 24.2 percent cast OHA ballots. Participation in this special election was limited to persons with Hawaiian blood, numbering approximately 175,453--including those ineligible because of age--in 1980.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii, Tuesday, November 2, 1982, pp. 9-10 and 182.

Table 363.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1963 TO 1983

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Vacant seats	Total	Democrats	Republicans	Vacant seats
1963 ..	51	40	11	-	25	15	10	-
1965 ..	51	39	12	-	25	16	9	-
1967 ..	51	39	12	-	25	15	10	-
1969 ..	51	38	12	1	25	17	8	-
1971 ..	51	34	17	-	25	16	8	1
1973 ..	51	35	16	-	25	17	8	-
1975 ..	51	35	16	-	25	18	7	-
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-
1983 ..	51	43	8	-	25	20	5	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1963-1981; Legislative Reference Bureau, records.

Table 364.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1981 AND 1983

[As of January.]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1981	1983	1981	1983	1981	1983
All counties	34	27	29	7	5	-	-
Hawaii	9	7	8	2	1	-	-
Maui	9	7	8	2	1	-	-
Honolulu	9	7	7	2	2	-	-
Kauai	7	6	6	1	1	-	-

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1981-1982 (pp. 27-34) and 1983-1984 (pp. 27-34).

Table 365.-- COMPOSITION OF THE 1983 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	43	8	25	20	5
Island of residence:						
Hawaii	5	4	1	3	2	1
Maui	3	3	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	40	33	7	19	15	4
Kauai	2	2	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1922 or earlier	2	2	-	3	2	1
1923 to 1932	13	9	4	5	2	3
1933 to 1942	9	7	2	10	9	1
1943 to 1952	19	18	1	7	7	-
1953 or later	8	7	1	-	-	-
Sex:						
Male	39	34	5	20	17	3
Female	12	9	3	5	3	2
Ethnic stock:						
Caucasian, except Portuguese	8	6	2	4	2	2
Chinese	4	3	1	2	2	-
Filipino	5	5	-	1	1	-
Japanese	17	16	1	12	10	2
Portuguese	2	1	1	1	-	1
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	10	9	1	5	5	-
Mixed: Non-Hawaiian .	5	3	2	-	-	-
Place of birth:						
Hawaii	39	34	5	23	19	4
Mainland U.S.	8	5	3	2	1	1
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	4	4	-	-	-	-

1/ Hawaiian, Korean, Negro or Black, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, letter dated March 11, 1983.

Table 366.-- COMPOSITION OF THE HAWAII TERRITORIAL OR STATE LEGISLATURE: 1951, 1961, AND 1971 SESSIONS

Subject	House of Representatives			Senate		
	1951	1961	1971	1951	1961	1971 1/
All members	30	51	51	15	25	24
Island of residence:						
Hawaii	8	8	6	4	8	3
Maui	6	4	3	3	5	3
Lanai	-	1	1	-	-	-
Molokai	-	-	-	-	-	-
Oahu	12	35	38	6	10	17
Kauai	4	3	3	2	2	1
Niihau	-	-	-	-	-	-
Year born:						
1889 or earlier	2	-	-	2	1	-
1890 to 1899	6	1	-	7	3	-
1900 to 1909	7	6	2	4	4	1
1910 to 1919	13	12	8	2	13	7
1920 to 1929	2	32	20	-	4	11
1930 to 1939	-	-	16	-	-	4
1940 to 1949	-	-	5	-	-	1
1950 or later	-	-	-	-	-	-
Median year 2/	1908	1922	1928	1896	1913	1924
Sex:						
Male	27	49	48	13	25	23
Female	3	2	3	2	-	1
Ethnic stock:						
Caucasian, except Portuguese or Spanish	9	12	7	3	6	5
Chinese	2	4	4	1	1	4
Filipino	-	1	2	-	-	-
Hawaiian (unmixed)	-	-	-	-	-	-
Japanese	9	22	27	3	14	11
Korean	-	-	-	-	-	-
Negro or Black	-	-	-	-	-	-
Portuguese	2	4	2	5	-	-
Puerto Rican	-	-	-	-	-	-
Spanish	1	1	1	-	-	-
Mixed: Part Hawaiian .	7	6	5	3	4	4
Mixed: Non-Hawaiian ..	-	1	3	-	-	-

Continued on next page.

Table 366.-- COMPOSITION OF THE HAWAII TERRITORIAL OR STATE LEGISLATURE: 1951, 1961, AND 1971 SESSIONS -- Con.

Subject	House of Representatives			Senate		
	1951	1961	1971	1951	1961	1971 1/
Place of birth:						
Hawaii	22	42	44	12	20	19
Mainland U.S.	5	7	5	2	4	5
U.S. terr. or poss. ...	-	-	-	-	-	-
Foreign country	3	2	2	1	1	-

1/ One seat vacant due to death.
2/ Based on ungrouped data.
Source: Office of the Lieutenant Governor, records.

Table 367.-- LENGTH OF LEGISLATIVE SESSIONS: 1978 TO 1983

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1978 2/	Jan. 18	87	None	-
1979	Jan. 17	94	None	-
1980	Jan. 16	104	None	-
1981	Jan. 21	64	June 22	6
1982	Jan. 20	63	May 5	2
1983	Jan. 19	63	Sept. 1	2

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory recess required by Art. III, sec. 10, of the Hawaii Constitution.

2/ For earlier years, 1901-1977, see source.

Source: Legislative Reference Bureau, Hawaii Legislators' Handbook, 8th edition (March 1983), Appendix E, pp. 98-100, and records.

Table 368.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1980 TO 1983

Action	1980: regular 1/	1981		1982: regular	1983: regular
		Regular 2/	Special		
House bills:					
Carried over from previous year	1,596	-	-	*1,747	-
Introduced	1,295	1,942	20	1,273	1,628
Enacted	201	*193	18	207	189
Vetoed	4	24	-	4	6
Became law	197	*167	18	203	183
Senate bills:					
Carried over from previous year	*1,744	-	-	*2,048	-
Introduced	1,321	2,131	4	863	1,491
Enacted	116	83	4	101	122
Vetoed	2	9	-	8	4
Became law	112	74	4	93	118
House resolutions:					
Offered	633	789	-	464	595
Adopted	*426	389	-	283	302
House concurrent resolutions:					
Offered	153	245	-	177	203
Adopted	*40	24	-	31	33
Senate resolutions:					
Offered	386	348	-	151	156
Adopted	*244	218	-	98	65
Senate concurrent resolutions:					
Offered	64	80	-	91	119
Adopted	18	15	-	8	11

* Revised from Data Book 1982, table 327.

1/ Senate Bills 1703 and 1973, proposing amendments to the State Constitution, were also passed.

2/ House Bills 150 and 238, proposing an amendment to the State Constitution, were also passed.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were ten banks with 181 branches, eight savings and loan associations with 153 branches, four trust companies, and 78 industrial loan or small loan licensees with 230 branch offices in Hawaii as of December 31, 1982. Deposits in Island banks reached $5.5 billion in mid-1982, compared with $2.0 billion a decade earlier. Assets of savings and loan associations stood at $4.7 billion in mid-1982, more than four times their 1972 level. There were 147 credit unions with combined assets of $936 million at the end of 1982.

Approximately 174,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1981.

Life insurance in force in Hawaii at the end of 1981 amounted to $21.3 billion, more than twice the figure reported ten years earlier. For all 640 insurance companies doing business in the Islands, Hawaii premiums amounted to $755 million in 1981 and losses, claims, and benefits paid came to only $353 million. Oahu fire losses amounted to $11 million in fiscal 1982. Persons covered by the two major prepaid health insurance plans as of December 31, 1982, numbered 650,000, with membership dues of $289 million.

By mid-1982, more than 38,000 corporations and partnerships were registered to do business in Hawaii: 26,400 local ("domestic") corporations, 3,700 out-of-State ("foreign") corporations, and 8,200 partnerships. Business establishments with one or more employees in 1981 numbered 21,264; 108 had 250 or more employees. During fiscal 1982, 3,126 new local corporations were formed and 1,436 existing local corporations were dissolved or merged. Business receipts of corporations in 1979 exceeded $13 billion; business receipts of proprietorships in the same year amounted to $1.05 billion. Hawaii's largest corporation, Amfac, Inc., reported 1982 sales of $2.2 billion, with a net profit of $34 million.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1982-83.

Table 369.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1982

Island	Banks		Savings and loans		Industrial loan licensees		Trust companies	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
State total 1/	10	181	8	153	78	230	4	7
Hawaii	6	21	7	18	15	25	2	2
Maui	6	19	6	16	11	18	1	1
Lanai	1	1	1	2	-	-	-	-
Molokai	1	1	1	2	1	1	-	-
Oahu	8	112	8	105	73	176	4	4
Kauai	4	12	5	10	8	10	-	-
Niihau	-	-	-	-	-	-	-	-
Midway Islands	-	-	-	-	-	-	-	
Other Pacific Islands	2	15	-	-	-	-	-	-

1/ Includes out-of-state branches on other Pacific islands.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, information provided April 20, 1983.

Table 370.-- BANKS: 1973 TO 1983

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1973	8	162	2,625,855	31,803,985	19,253,017
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	84,336,851	42,719,522
1981	9	176	5,556,264	90,280,833	43,333,718
1982	10	179	6,373,192	89,384,383	42,811,992
1983	10	183	7,003,029	(NA)	(NA)

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other 1/
1973	2,367,682	781,470	982,689	603,523
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615
1981	4,790,261	1,082,767	2,559,876	1,147,618
1982	5,458,604	1,031,492	2,933,285	1,493,827
1983	6,230,996	1,102,606	3,530,499	1,597,891

NA Not available.

1/ Beginning 1981, includes foreign deposits.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, Comparative Statement of Conditions of Banks (semi-annual) and records.

Table 371.-- SAVINGS AND LOAN ASSOCIATIONS: 1973 TO 1983

[As of June 30.]

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches 2/		
1973	12	72	1,325,331	1,032,679
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,136	2,664,704
1980	8	139	3,896,380	2,901,379
1981	9	151	4,420,035	3,083,182
1982	8	155	4,596,314	3,259,147
1983	8	154	4,631,588	3,496,835

1/ Withdrawable shares, withdrawable deposits, investment certificates, and NOW accounts.

2/ Branches, facilities, and agencies.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, Comparative Statement of Condition of Savings and Loan Associations (semi-annual) and records.

Table 372.-- TRUST COMPANIES AND LOAN LICENSEES: 1973 TO 1983

[As of June 30.]

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1973	3	45,809	221	549,495	24	131
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-
1981	4	89,130	244	1,072,914	-	-
1982	4	121,526	238	1,144,724	-	-
1983	4	157,611	224	1,580,705	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, Comparative Statement of Condition of Trust Companies (semi-annual), Industrial Loan Licensees Comparative Consolidated Statement of Condition (semi-annual), and records.

Table 373.-- CONSUMER CREDIT OUTSTANDING AT BANKS: 1979 TO 1982

[In millions of dollars. As of December 31.]

Type of credit	1979	1980	1981	1982
Total	707.2	799.8	806.5	821.6
Credit card and related plans	150.8	170.2	184.3	189.9
Automobile loans	199.2	222.8	216.9	218.8
Home improvement loans	59.8	75.5	84.0	82.4
Other installment loans	211.9	214.6	229.3	232.7
Single payment loans	85.5	116.7	92.0	97.8

Source: Bank of Hawaii Economics Division, "Consumer credit loans slowed down in 1980," Sunday Star-Bulletin and Advertiser, March 22, 1981, p. F7, and records.

Table 374.-- CREDIT UNIONS: 1977 TO 1982

[As of December 31.]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1977	158	599,929,674	535,493,101
1978	158	704,130,075	626,367,918
1979	159	755,417,266	667,505,910
1980 1/	156	800,472,936	714,315,177
1981	152	826,741,896	741,883,222
1982	147	936,381,493	841,538,942

1/ Revised from 1981 edition, table 326.
Source: Hawaii Credit Union League, records.

Table 375.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1981

Year	Shareowners
1959	13,000
1962	18,000
1965	39,000
1970	74,000
1975	58,000
1980 1/	175,000
1981	174,000

1/ Revised.

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), and Shareownership 1981 (p. 21).

Table 376.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN SELECTED MAJOR HAWAII COMPANIES: 1982

[Includes individuals, corporations, trusts, and trust company nominee accounts which have Hawaii addresses-of-record. Only common stock is considered. Excludes shares owned by residents in any non-Hawaii-based broker's name. As of December 31, 1982 unless otherwise noted.]

Company	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii 1/ (thousands of dollars)	Annual dividends to Hawaii shareholders 1/ (thousands of dollars)
	Number	Percent of company total	Number (thousands)	Percent of company total		
Alexander and Baldwin, Inc. 2/	3,727	51.8	3,979	43.3	128,820	7,162
Amfac, Inc.	3,813	35.8	2,850	19.1	74,100	4,104
Bancorp Hawaii, Inc. 3/	2,372	58.9	2,739	36.0	59,573	3,232
Castle and Cooke, Inc. 4/	4,633	16.4	2,975	10.6	26,403	1,190
Dillingham Corporation 5/	3,970	37.9	4,470	32.5	102,251	3,129
First Hawaiian, Inc.	1,337	62.6	2,139	63.7	60,962	5,134
Hawaiian Electric Co., Inc.	12,440	56.2	2,336	31.5	70,956	7,008
Maui Land and Pineapple Co., Inc.	194	22.8	1,592	88.4	46,168	589
Pacific Resources, Inc.	2,922	65.9	7,132	65.7	62,405	3,994

1/ Based on prices (last trade or bid) and dividend rates as of December 31, 1982.
2/ As of February 10, 1983.
3/ As of August 19, 1982.
4/ As of December 17, 1982.
5/ Became a private corporation on March 18, 1983.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from data supplied by the companies listed.

Table 377.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1971 TO 1981

[Includes data for all insurance companies, life or other, authorized in Hawaii.]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217
1981	640	755,298	352,523	2,565,525

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 378.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1971 TO 1981

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1971 ...	233	1,565,272	8,127,837	106,524	45,301
1972 ...	239	1,484,039	8,788,361	115,491	44,661
1973 ...	262	1,935,643	9,433,897	120,229	47,980
1974 ...	270	2,614,259	11,383,173	130,102	54,009
1975 ...	279	2,046,479	12,650,488	138,597	53,291
1976 ...	283	2,269,602	13,560,838	148,977	65,312
1977 ...	285	2,432,658	14,680,847	161,725	63,040
1978 ...	291	2,814,838	15,803,154	172,999	64,391
1979 ...	311	2,999,500	17,122,778	186,487	74,627
1980 ...	318	3,694,867	19,131,180	197,394	82,333
1981 ...	346	4,995,919	21,287,888	204,049	98,942

1/ Authorized in Hawaii, including fraternal benefit societies. Before 1973, limited to number transacting life insurance business during the year.

2/ Includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 379.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1981

[In dollars.]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	755,297,848	352,523,414
Life 1/	202,955,493	98,684,901
Fraternal	1,093,227	257,359
Fire, marine, casualty, and miscell.:		
Accident and health	66,579,398	39,482,366
Fire	12,341,955	7,018,755
Allied lines	5,748,249	1,910,017
Homeowners multiple peril	29,185,760	12,971,925
Commercial multiple peril	24,178,851	3,756,920
Private passenger auto no-fault	30,885,773	18,948,721
Other private passenger auto liability	76,981,914	44,252,017
Commercial auto no-fault	4,801,679	3,003,815
Other commercial auto liability	23,843,519	16,863,804
Private passenger auto physical damage	59,416,616	31,196,172
Commercial auto physical damage	9,541,338	5,698,204
Workers' compensation	122,529,620	54,287,348
Other liability	29,455,100	11,930,008
Medical malpractice	4,333,636	961,720
Glass	267,003	172,506
Burglary and theft	791,800	418,305
Boiler and machinery	418,721	552,461
Fidelity and surety	13,114,787	-1,264,580
Ocean marine	5,425,209	-4,215,454
Inland marine	8,454,120	2,984,035
Earthquake	453,297	7
All other 3/	8,762,318	857,227
Surplus lines	13,738,465	1,794,855

1/ Excludes annuities and $859,763 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1982, p. 7.

Table 380.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1981

[Money amounts in millions of dollars. For insurance companies authorized to do business in Hawaii.]

Subject	All companies	Domestic companies	Foreign companies	Alien companies (U.S. business only)
Number of companies	640	18	602	20
Financial condition, Dec. 31:				
Assets	625,394.9	585.4	614,427.2	10,382.3
Liabilities exc. capital and surplus	554,694.4	456.1	544,814.1	9,424.2
Policyholder's surplus inc. capital	70,700.5	129.3	69,613.1	958.1
Capital	2,527.4	15.8	2,484.7	26.9
Net gain or loss	-165.2	-1.7	73.9	-237.4
Hawaii business:				
Direct premiums written	814.0	277.8	509.7	26.5
Claims and benefits paid	412.9	115.3	284.2	13.4
Investments in Hawaii, Dec. 31 1/	2,565.5	148.6	2,386.8	30.1
Mortgage loans (principal indebtedness)	1,458.5	76.8	1,366.8	14.9
Collateral loans (amount lent)	3.3	0.7	2.6	-
State and county bonds 2/	223.9	12.2	211.1	0.6
Utilities stocks and bonds 2/	189.8	14.2	164.7	10.9
Industrial and misc. stocks and bonds 2/	592.7	36.5	552.5	3.7
Real estate 2/	97.4	8.1	89.2	0.1
Balances in Hawaii banks	21.1	19.6	1.4	0.0

1/ Does not include balances in Hawaii banks.

2/ Market value (less encumbrances for real estate).

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii 1982, pp. 16, 18, 19, and 36-39.

Table 381.-- HEALTH INSURANCE: 1979 TO 1981

Subject	1979	1980	1981
Protected population (thousands): 1/			
Hospital expense	796	767	(NA)
Surgical expense	751	719	(NA)
Physician's expense	711	676	(NA)
Major medical expense	81	71	(NA)
Health insurance benefit payments (millions of dollars), total	273	328	(NA)
Insurance companies	49	48	(NA)
Other hospital-medical plans	224	280	(NA)
Health insurance premiums (millions of dollars), total	304	358	(NA)
Insurance companies	55	62	(NA)
Other hospital-medical plans	249	296	(NA)
Community hospital costs:			
Average length of hospital stay (days)	7.5	7.5	7.9
Average cost (dollars):			
Per patient day	264	246	277
Per patient stay	1,978	1,844	2,187

NA Not available.

1/ Number of persons under age 65 protected by hospital, surgical, physician's expense, and major medical expense coverage, as of December 31 (unduplicated).

Source: Health Insurance Association of America, Source Book of Health Insurance Data for 1980-1981, 1981-1982, and 1982-1983.

Table 382.-- PREPAID HEALTH PLANS: 1972 TO 1982

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1972 ..	417,305	48,759	95,226	95,877	13,227	29,097
1973 ..	432,905	55,209	96,057	96,242	14,779	31,200
1974 ..	451,583	64,138	97,202	98,184	16,309	33,176
1975 ..	474,265	79,827	100,766	101,827	18,592	35,564
1976 ..	484,295	97,882	103,364	104,785	21,879	42,601
1977 ..	507,709	113,335	106,217	107,592	25,614	46,124
1978 ..	515,439	127,744	110,191	113,388	28,883	51,741
1979 ..	528,362	146,775	115,225	115,963	34,514	57,515
1980 4/	537,281	175,035	116,118	117,409	38,566	60,150
1981 ..	537,684	206,675	119,407	122,985	44,658	66,579
1982 ..	527,319	237,923	122,554	122,732	50,816	(NA)

NA Not available.

1/ For accident and health insurance.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Excludes investment income, membership fees, etc.

4/ Corrected from 1981 edition, table 334.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual).

Table 383.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1972 TO 1982

[Years ended June 30.]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1972 ..	6,379	3,952	1,838	589	7	3,527,052
1973 ..	7,415	4,930	1,807	678	8	12,962,159
1974 ..	6,132	3,685	1,812	635	11	6,391,520
1975 ..	7,064	4,316	2,057	691	5	7,303,404
1976 ..	8,157	5,278	2,166	713	7	7,369,820
1977 ..	8,225	5,451	2,061	713	5	7,008,431
1978 ..	7,876	5,258	1,858	760	5	9,975,951
1979 ..	8,497	5,962	1,861	674	7	8,027,335
1980 ..	8,749	6,701	1,423	625	13	11,897,724
1981 ..	7,564	6,084	810	670	9	15,071,355
1982 ..	6,518	4,602	769	1,147	9	11,393,700

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu (annual), and records.

Table 384.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1973 TO 1981

[Data refer to establishments with taxable payrolls during the first quarter of the year. Coverage excludes government and self-employed workers.]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class								
		First quarter	Annual	Total	1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1973	236,606	444,491	1,885,174	16,298	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1974 2/	248,859	478,032	2,081,578	16,957	9,045	3,249	2,230	1,558	553	234	53	39
1975	252,254	543,590	2,274,957	17,095	9,041	3,317	2,305	1,546	565	226	56	39
1976	252,252	577,390	2,412,122	17,271	9,135	3,359	2,332	1,544	566	248	49	38
1977	263,079	630,090	2,637,726	18,660	9,942	3,741	2,397	1,642	589	257	52	40
1978	282,256	699,638	2,966,228	19,222	9,849	3,991	2,695	1,721	602	264	57	43
1979	302,763	809,676	3,451,980	20,621	10,568	4,285	2,866	1,864	653	281	54	50
1980 3/	314,106	930,312	3,849,636	21,125	10,928	4,346	2,868	1,906	666	311	55	45
1981	316,249	1,043,474	4,316,852	21,264	10,969	4,337	2,973	1,905	663	309	63	45

NA Not available.

1/ For week including March 12.

2/ Totals for number of employees, payroll, and total number of establishments are revised figures, but data on number of establishments by size are unrevised and add to 16,961 rather than 16,957.

3/ Revised from Data Book 1982, table 344.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 385.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1980 AND 1981

[Excludes government employees and self-employed persons.]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1980 1/				
State total	21,125	314,106	930,312	3,849,636
Hawaii	2,146	23,881	65,520	278,399
Honolulu	16,153	254,698	773,549	3,185,801
Kauai	903	12,031	31,416	133,964
Maui	1,864	23,422	59,513	248,852
Statewide	59	74	314	2,621
1981				
State total	21,264	316,249	1,073,474	4,316,852
Hawaii	2,156	23,821	71,915	296,870
Honolulu	16,257	255,656	868,205	3,587,855
Kauai	943	11,656	32,938	141,343
Maui	1,872	25,077	70,335	290,070
Statewide	36	39	81	715

1/ Revised from Data Book 1982, table 345.

Source: U.S. Bureau of the Census, County Business Patterns, 1981, Hawaii, CBP-81-13 (May 1983), p. 17.

Table 386.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1980 AND 1981

[Excludes government and self-employed workers.]

Major industry group	Number of establish-ments	Number of employees, mid-March	Payroll ($1,000) First quarter	Payroll ($1,000) Annual
1980 1/				
Total	21,125	314,106	930,312	3,849,636
Agricultural services, forestry, fisheries	213	1,771	4,391	19,558
Mining	6	225	1,125	4,638
Contract construction	1,646	26,184	117,312	480,397
Manufacturing 2/	831	25,515	79,488	335,255
Food and kindred products	192	10,875	29,699	136,866
Apparel and other textile products	134	3,893	7,366	29,659
Transportation and other public utilities	888	31,665	149,157	611,703
Wholesale trade	1,608	17,107	61,032	257,655
Retail trade 2/	5,630	84,203	166,211	682,486
Eating and drinking places	1,577	33,749	47,529	191,773
Finance, insurance, and real estate	2,969	29,593	92,696	387,109
Services 2/	6,178	94,777	253,529	1,043,437
Hotels and other lodging places ..	209	25,094	60,623	238,927
Health services	1,385	17,477	62,770	261,369
Nonclassifiable establishments	1,156	3,066	5,372	27,402
1981				
Total	21,264	316,249	1,043,474	4,316,852
Agricultural services, forestry, fisheries	207	1,892	4,948	22,232
Mining	8	278	1,460	6,088
Contract construction	1,603	22,812	115,576	458,923
Manufacturing 2/	861	25,027	84,512	42,161
Food and kindred products	205	10,946	33,325	151,096
Apparel and other textile products	134	3,637	7,261	31,591
Transportation and other public utilities	892	31,508	153,166	648,450
Wholesale trade	1,621	17,674	69,889	287,002
Retail trade 2/	5,728	84,827	222,433	910,091
Eating and drinking places	1,622	34,057	49,425	203,899
Finance, insurance, and real estate	2,902	30,676	103,552	418,651
Services 2/	6,461	98,406	281,786	1,176,562
Hotels and other lodging places ..	211	24,496	63,893	261,098
Health services	1,543	18,662	72,862	308,387
Nonclassifiable establishments	981	3,149	6,151	31,442

Footnotes and source on next page.

Table 386.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1980 AND 1981 - Con.

1/ Revised from Data Book 1982, table 346.
2/ Includes subgroups not shown separately.
Source: U.S. Bureau of the Census, County Business Patterns, 1981, Hawaii, CBP-81-13 (May 1983), pp 1-2.

Table 387.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1981

[Excludes government employees and self-employed persons.]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	21,264	316,249	4,316,852
1 to 4	10,969	22,799	342,503
5 to 9	4,337	30,911	491,499
10 to 19	2,973	42,235	481,796
20 to 49	1,905	59,872	711,472
50 to 99	663	46,293	592,611
100 to 249	309	46,870	656,219
250 to 499	63	22,608	319,280
500 to 999	28	19,111	274,943
1,000 or more	17	25,550	446,532

Source: U.S. Bureau of the Census, County Business Patterns, 1981, Hawaii, CBP-81-13 (May 1983), pp. 3 and 11.

Table 388.-- CHARACTERISTICS OF SMALL BUSINESSES: FOURTH QUARTER 1981

[Small businesses defined as nongovernmental employing units with fewer than 100 employees covered by the Hawaii Employment Security Law.]

Industry	No. of employing units	Employees (1,000)	Total wages (million dollars)	Percent of total industry 1/		
				Units	Employees	Wages
All industries	19,695	175.3	586.6	97.6	53.9	51.6
Agriculture	363	3.9	11.5	94.3	34.7	27.1
Construction and mining	1,692	14.5	85.4	98.4	73.0	71.8
Manufacturing	725	9.9	35.6	93.7	44.4	38.8
Transportation, communication, utilities	906	12.6	47.3	94.5	39.3	28.7
Wholesale trade	1,713	16.2	65.3	99.1	87.0	82.7
Retail trade	4,472	51.0	109.4	97.3	56.5	53.6
Finance, insur., real est. ..	2,864	17.7	65.7	98.3	55.8	54.9
Services	6,907	49.2	165.8	97.9	49.8	52.5
Nonclassifiable	53	0.2	0.6	100.0	100.0	100.0

1/ Small business as percent of all business, by industry.

Source: Hawaii State Department of Labor and Industrial Relations, special tabulation of ES-202 records, July 1982.

Table 389.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1980 TO 1983

[Excludes eleemosynary corporations.]

Subject	1980	1981	1982	1983
Domestic (Hawaii) corporations:				
Formed 1/	3,450	3,386	3,126	2,773
Dissolved or merged 2/	1,621	267	1,436	1,846
On record, June 30	22,917	24,726	26,416	27,343
Foreign (non-Hawaii) corporations:				
Qualified 1/	476	454	468	480
Withdrawn, merged, or cancelled 2/	217	79	328	326
On record, June 30	3,408	3,583	3,723	3,877
Partnerships:				
Registered 1/	1,775	1,938	1,841	1,798
Dissolved or cancelled 2/	1,044	384	1,827	1,186
On record, June 30	7,696	8,194	8,208	8,820

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 390.-- CORPORATIONS, TAXABLE AND NONTAXABLE: 1976 TO 1979

Subject	Fiscal year ended in --			
	1976	1977	1978	1979
Number of corporations	11,611	12,160	13,127	13,285
Taxable	5,445	7,216	6,924	7,463
Nontaxable	6,166	4,944	6,203	5,822
Business receipts 1/	9,619	11,308	12,215	13,442
Taxable corporations 1/	6,578	7,652	9,034	9,538
Nontaxable corporations 1/	3,041	3,656	3,181	3,904
Taxable income, excluding net losses 2/	396.8	418.9	560.9	706.9

1/ In millions of dollars.

2/ In millions of dollars. Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations (annual reports), and data provided July 25, 1983.

Table 391.-- PROPRIETORSHIPS: 1975 TO 1979

Subject	1975	1977	1979 1/
Number of businesses, total	40,427	42,343	46,029
With net profit	28,096	27,859	32,357
With net loss	12,331	14,484	13,672
Business receipts, total ($ million)	660.4	840.2	1,051.0
Businesses with net profit ($ million)	593.7	706.5	896.9
Businesses with net loss ($ million)	66.6	133.7	154.1
Net profit reported ($ million)	180.3	251.3	263.5
Net loss reported ($ million)	27.3	38.7	35.0

1/ Revised from Data Book 1982, table 351.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Proprietorships (biennial report), and data provided July 25, 1983.

Table 392.-- TOTAL REVENUES AND NET INCOME OF SELECTED MAJOR CORPORATIONS IN HAWAII: 1981 AND 1982

[In millions of dollars.]

Corporation	Total revenues		Net income	
	1981	1982	1981	1982
Amfac, Inc.	2,148.0	2,208.5	44.2	34.2
Castle and Cooke, Inc. 1/	1,794.9	1,823.2	42.3	12.5
Dillingham Corporation	1,627.2	1,487.4	30.9	30.0
Pacific Resources, Inc.	1,081.5	1,237.2	17.1	9.8
Hawaiian Electric Co., Inc.	665.2	687.3	30.1	34.3
Alexander and Baldwin, Inc.	385.2	397.5	24.4	40.1
Bancorp Hawaii, Inc.	322.1	361.7	25.9	29.9
Hawaiian Telephone Company	310.1	338.2	43.8	41.2
First Hawaiian, Inc.	249.3	273.1	18.1	19.1
C. Brewer and Co., Ltd.	314.7	195.6	(NA)	(NA)
Hawaiian Airlines, Inc.	98.7	100.5	5.3	-16.8
Maui Land and Pineapple Co., Inc.	85.9	87.3	-1.1	-3.9
Aloha Airlines, Inc.	84.9	77.2	2.6	-0.3
Amelco Corporation 2/	74.2	74.2	2.0	2.0
American Security Bank	49.7	56.8	2.3	2.9
CPB Inc.	47.4	46.7	1.3	1.3
Crown Corporation 3/	39.3	40.0	-0.7	-0.1
Interisland Resorts, Ltd.	44.6	39.3	-4.3	-5.4
City Bank	36.2	38.2	1.6	1.5
Liberty Bank	24.6	25.0	0.3	0.3
Mid Pacific Airlines 4/	7.9	21.4	-1.1	0.5
Hawaii National Bank	19.0	20.3	-0.8	1.2
Hawaiian Trust Co., Ltd.	9.4	10.3	1.2	1.2
Bank of Honolulu	5.0	4.9	0.4	0.1

NA Not available.

1/ Fiscal year ending third Saturday in June.

2/ Fiscal year ending September 30.

3/ Revenue figure for 1982 is an estimate. Net income figures are for fiscal nine months.

4/ Began operations in March 1981. 1981 figures cover 10 1/2 months.

Source: "Recession Hits Hard at Hawaii Companies' '82 Profits," The Honolulu Advertiser, April 15, 1983, P. A-27; and compilations by the Hawaii State Department of Planning and Economic Development from corporate annual reports.

Table 393.-- REVENUES FROM HAWAII AND ELSEWHERE FOR MAJOR HAWAII-BASED CORPORATIONS: 1967 AND 1982

[In millions of dollars.]

Company	Revenues in Hawaii		Revenues outside Hawaii	
	1967	1982	1967	1982
AMFAC	146	460	-	1,700
Castle and Cooke	87	252	262	1,500
Dillingham	(NA)	280	(NA)	1,200
Pacific Resources	9.4	885	-	505
Alexander and Baldwin	204	376	1.4	21.7
C. Brewer	63	195	48	8.3

NA Not available.

Source: Russ Lynch, "Isle Companies Reach Afar for Diversification," Honolulu Star-Bulletin, March 31, 1983, pp. E-1 and E-5.

Table 394.-- WOMEN-OWNED BUSINESSES, BY INDUSTRY: 1977

[A firm was considered to be women-owned if the sole owner or at least half of the partners were women; a corporation was classified as women-owned if 50 percent or more of the shares were owned by women.]

Industries	All firms		With paid employees			
	Firms (number)	Gross receipts ($1,000)	Firms (number)	Employees 1/ (number)	Annual payroll ($1,000)	Gross receipts ($1,000)
All industries	4,815	165,127	732	4,080	23,621	127,284
Wholesale trade	131	15,970	31	137	1,303	13,367
Retail trade	1,785	86,552	389	2,376	11,830	70,860
Selected services	1,933	30,236	202	948	5,741	19,542
Other and not classified	966	32,369	110	619	4,747	23,515

1/ For week including March 12.

Source: U.S. Bureau of the Census, 1977 Economic Censuses, WB77-1, Women-Owned Businesses (May 1980), p. 39.

Table 395.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 TO 1981

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0
1979	38	8.7
1980	83	21.6
1981	89	23.5

Source: Data from Dun and Bradstreet, Inc., cited in Statistical Abstract of the United States for 1979 (p. 575), 1980 (p. 576), 1981 (p. 538), and 1982-83 (p. 532).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, telephone, telegraph, radio, television, newspapers and periodicals, and books.

Hawaii is served by all major communications media. In 1982 it had 76 post offices handling 290 million pieces of mail and accounting for postal receipts in excess of $77 million. There were 445,000 telephone lines in service, 323,000 telephone homes, about 2 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1981 totaled 196,000. The 45 commercial, public and educational radio stations in the Islands early in 1982 included 29 on the regular broadcast band and 16 FM stations. The State also had 16 television stations (14 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 165,000 subscribers. An estimated 97 percent of all households had television sets, and evening programs in May 1983 were watched by a combined average of 168,000 households. Island publishers printed eight daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 198,000 in 1982-1983, compared with 202,000 a decade earlier.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Division of Consumer Advocacy and CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1982-83, Section 19.

Table 396.-- POSTAL SERVICE: 1972 TO 1982

[For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	Number of post offices 1/	Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
1972	78	23,434	215
1973	77	27,100	226
1974	76	29,663	233
1975	76	33,549	238
1976	76	37,433	242
1977	76	43,790	249
1978	76	49,198	267
1979	76	55,267	276
1980	76	58,413	298
1981	76	67,055	293
1982	76	77,424	290

1/ At end of period. Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

Source: U.S. Postal Service, Honolulu, records.

Table 397.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: APRIL 15, 1983

Island	Total	Post offices 1/			Stations	
		1st class	2nd class	3rd class	Classified 2/	Contract 3/
State total ..	126	27	30	19	33	17
Hawaii	33	8	10	10	2	3
Maui	14	5	5	-	2	2
Lanai	1	-	1	-	-	-
Molokai	5	-	1	4	-	-
Oahu	56	11	5	1	28	11
Kauai	17	3	8	4	1	1
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu, Address Information Systems, data supplied May 11, 1983.

Table 398.-- TELEGRAPH MESSAGES: 1971 TO 1981

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1971 ..	419,188	201,600	135,581	66,019	217,588	154,506	63,082
1972 ..	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973 1/	385,823	187,130	116,850	70,280	198,693	136,747	61,946
1974 ..	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975 ..	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976 ..	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977 ..	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ..	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979 ..	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178

1/ Corrected from previous editions of the Data Book.

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 399.-- TELEPHONE ACCESS LINES: 1981 AND 1982

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines.]

Year	All access lines		Residence access	Business access	Other types
	State total	Oahu			
1981	431,893	324,968	314,613	95,742	21,538
1982	445,452	334,150	322,859	99,420	23,173

Source: Hawaiian Telephone Company, records.

Table 400.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1971 TO 1981

[As a result of changes brought about by the deregulation of the telephone industry, the series reported in this table no longer adequately measure telephone usage in Hawaii, and moreover are subject to disclosure rules that preclude their publication without permission of the Hawaiian Telephone Company. Consequently, publication of annual statistics after 1981 was suspended.]

Year	Telephones in service, December 31			Residence main stations, Dec. 31
	State total	Oahu	Other islands	
1971	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433
1980	712,095	555,790	156,305	303,928
1981	728,352	563,630	164,722	311,430

Source: Hawaiian Telephone Company, records, for 1971 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 401.-- TELEPHONE CALLS: 1973 TO 1982

[In thousands.]

Year	Local 1/		Interisland 2/		Transpacific (paid) 2/	
	Originating	Completed	Paid 3/	Completed	Outgoing	Incoming and outgoing 4/
1973	1,379,709	931,304	3,754	3,805	3,795	6,814
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was suspended.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 402.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was suspended.]

Island	Telephones in service, Dec. 31,	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS 2/	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 403.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: 1923 TO 1983

[Stations licensed or holding construction permits, 1923-1953; stations on the air, 1958 and later years. Data are as of January 1 unless otherwise specified.]

Year	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1923	2	-	-	-	-	-
1928	2	-	-	-	-	-
1933	2	-	-	-	-	-
1938	3	-	-	-	-	-
1943	4	-	-	-	-	-
1948 (June 30)	9	-	-	-	-	-
1953	12	-	2	-	-	-
1958	15	1	7	-	2	-
1963	20	1	10	-	1	-
1968	25	3	10	-	-	2
1973	24	5	10	-	1	2
1974	25	7	10	-	1	2
1975	26	5	10	-	1	2
1976	26	6	10	-	1	2
1977	25	7	10	-	1	2
1978 2/	25	8	10	-	1	2
1979 2/	25	8	10	-	1	2
1980	25	10	10	-	1	2
1981	25	11	10	-	1	2
1982 (June 30) 2/ ..	29	14	11	-	2	2
1983 (July 1)	26	12	12	-	2	2

1/ Excluding translators and cable television.

2/ Data for commercial TV, 1978, 1979, and 1982, and non-commercial AM and FM, 1978, revised from figures in earlier editions of The State of Hawaii Data Book.

Source: 1923-1977 from Federal Communications Commission data cited in Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 482. 1978-1982 from Federal Communications Commission, Broadcast Bureau, Broadcast Facilities Division, records, as corrected by the Federal Communications Commission, Honolulu Office (see footnote 2 above); 1983 from table 404.

Table 404.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JUNE 30, 1983

County	Commercial stations			Non-commercial stations		
	AM 1/	FM	TV 2/	AM	FM	TV 2/
State total ..	26	12	12	-	2	2
Hawaii	4	2	4	-	-	-
Maui	3	2	3	-	-	1
Honolulu	17	7	5	-	2	1
Kauai	2	1	-	-	-	-

1/ Station KAIM, with studios on Oahu but transmitter on Molokai, is included with the Honolulu total.

2/ Includes satellites but excludes translators and cable television.

Source: Federal Communications Commission, Honolulu office, October 28, 1983.

Table 405.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1981 AND 1982

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue ($1,000)	
	1981	1982	1981	1982	1981	1982
State total	10	10	141,507	165,481	16,534	19,289
Hawaii	3	3	15,156	16,703	2,038	2,903
Maui	2	2	9,874	14,464	1,152	1,435
Honolulu	4	4	114,325	131,652	12,936	14,564
Kauai 2/	2	2	2,152	2,662	408	387

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

2/ 1981 data include Seven Twenty Limited Partnership which was granted a permit on August 4, 1981, but did not begin service until 1982.

Source: Hawaii State Department of Commerce and Consumer Affairs, CATV Division, records.

Table 406.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREAS: JANUARY 1983

Geographic area	Total households	Television households	
		Number	Percent
State total ...	320,800	310,310	96.7
Oahu	248,900	242,380	97.4
Other islands	71,900	67,930	94.5

Source: Hawaii Public Broadcasting Authority, records.

Table 407.-- AVERAGE NUMBER OF TELEVISION VIEWERS, BY TIME OF DAY: FEBRUARY 1983 AND MAY 1983

[In thousands.]

Time of day	Days of week	Households 1/		Persons 2/	
		Feb. 1983	May 1983	Feb. 1983	May 1983
7 A.M. to 5 P.M.	Mon.-Fri.	55	54	76	75
5:00 to 10 P.M.	Mon.-Fri.	174	168	330	310
10:00 to midnight	Mon.-Fri.	80	80	124	126
7 A.M. to 1 A.M.	Sat.-Sun.	86	85	147	142
6:30 to 10:00 P.M.	Sat.-Sun.	182	174	357	330

1/ Average number of households with a TV set turned on.
2/ Average number of persons, 2 years old and over, in television households that are viewing any station.
Source: Hawaii Public Broadcasting Authority, records.

Table 408.-- PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1972-73 TO 1982-83

[Averages for 12-month periods ended March 31.]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 1/	Sunday Star-Bulletin and Advertiser
1972-73 ...	74,248	128,132	184,359
1973-74 ...	76,763	130,532	190,037
1974-75 ...	75,613	119,691	183,783
1975-76 ...	73,834	115,145	183,566
1976-77 ...	77,442	118,925	191,903
1977-78 ...	79,501	118,883	195,594
1978-79 ...	82,981	119,211	201,681
1979-80 ...	83,479	118,341	201,445
1980-81 ...	83,721	115,815	201,301
1981-82 ...	83,825	112,011	197,135
1982-83 ...	84,882	112,912	197,142

Year	Hawaii Tribune-Herald		Maui News 2/	West Hawaii Today 3/
	Daily 4/	Sunday		
1972-73 ...	14,187	14,534	(NA)	4,550
1973-74 ...	15,216	15,654	(NA)	4,746
1974-75 ...	15,710	16,303	(NA)	4,703
1975-76 ...	16,386	17,361	(NA)	4,736
1976-77 ...	16,424	17,548	13,220	4,592
1977-78 ...	16,440	17,950	13,561	4,625
1978-79 ...	16,964	18,651	14,975	5,053
1979-80 ...	17,825	19,555	15,109	5,977
1980-81 ...	18,450	20,104	15,281	6,537
1981-82 ...	18,912	20,531	13,965	6,804
1982-83 ...	19,103	21,094	14,323	6,599

NA Not available.

1/ Published daily, Monday through Saturday.

2/ Published 3 times weekly, September 1970 through May 1981, and 5 times weekly (Monday through Friday) beginning June 1, 1981. Figure for 1981-1982 refers to 6-month period ended March 31, 1982.

3/ Published weekly, 1968-1974; twice weekly, 1974-1976; 3 times weekly, 1976-1982; and 5 times weekly (Monday through Friday), beginning March 1, 1982. Figure for 1982-1983 refers to 6-month period ended June 30, 1983.

4/ Published 5 times weekly, Monday through Friday.

Source: Hawaii Newspaper Agency, Inc., Hawaii Tribune-Herald, Maui Publishing Co., Ltd., and West Hawaii Today.

Table 409.-- PERIODICALS PUBLISHED IN HAWAII: 1982

Frequency	Newspapers 1/		Magazines and other periodicals
	English	Foreign language	
Daily, 5 to 7 times weekly	5	3	-
2 to 4 times weekly	1	-	2
Weekly	8	2	11
Semi-monthly or biweekly	4	1	5
Monthly	-	-	26
2 to 10 times annually	-	-	15

1/ The daily newspapers were: Honolulu Advertiser, Honolulu Star-Bulletin, Hawaii Tribune-Herald (Hilo), The Maui News (Wailuku), and West Hawaii Today (Kailua-Kona), all English-language; Hawaii Hochi, Japanese and English; Korea Times and Han Kook Ilbo, Korean language; and United Chinese Press, Chinese language. Except as noted above, all are published in Honolulu.

Source: Aloha United Way, Hawaii Media Guide (annual).

Table 410.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1981 AND 1982

[The University Press of Hawaii was renamed the University of Hawaii Press in 1982.]

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1981	619	469	33	5	211,598	944,386
1982	648	499	29	7	196,093	888,504

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual), and records.

Table 411.-- POSTAGE AND TELEGRAPH RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1973 TO 1983

[In cents. As of July 1.]

Year	Domestic postage rates 1/			Telegraph rate per word 2/	Newspaper price 3/	
	Letters		Postal and post cards		Daily	Sunday
	First ounce	Each added ounce				
1973	8	8	6	21	15	35
1974	10	10	8	21	20	45
1975	10	10	8	21	20	50
1976	13	11	9	21	20	50
1977	13	11	9	21	20	50
1978	15	13	10	21	20	50
1979	15	13	10	21	25	60
1980	15	13	10	21	25	60
1981	18	17	12	4/ 10.5	25	75
1982	20	17	13	21	25	100
1983	20	17	13	21	25	100

1/ Surface mail rates. Beginning in 1959, first-class mail was routinely airlifted to and from the Mainland, and, effective October 11, 1975, surface mail service was upgraded to the level of airmail throughout the nation. Domestic airmail service was discontinued as of May 1, 1977.

2/ Per full-rate word (non-coded) between Honolulu and the Mainland.

3/ Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

4/ Corrected from Data Book 1982, table 369.

Source: Postal rates from Statistical Abstract of the United States: 1982, p. 554, as updated. Telegraph rates from Federal Communications Commission, records, and telegraph company Honolulu offices. Newspaper rates from mastheads.

Table 412.-- TELEPHONE RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1973 TO 1983

[In dollars. As of July 1. Including tax.]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1973 ..	0.10	0.97	0.97	3.27	4.25	10.63
1974 ..	0.10	0.97	0.97	2.59	3.40	10.53
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31

1/ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

Source: Hawaiian Telephone Company, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, research and development, and scientific resources.

Total energy consumption in 1981 amounted to 237 trillion British thermal units, compared with 219 trillion BTU a decade earlier. Transportation accounted for 52 percent of the 1981 total.

Electricity sales exceeded 6.3 billion kilowatt-hours in 1982, a total that has doubled since 1968. Manufactured gas sales reached 32.2 million therms in 1982, eight percent below the figure five years earlier. Residential rates in 1982 averaged 12.3 cents per kilowatt-hour and $1.73 per therm, both well above the corresponding rates only a few years earlier. Average residential use (6,654 kWh and 218 therms in 1982) has declined significantly in recent years. By 1981, almost seven percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1982 was approximately 893 million gallons, compared with 825 million in 1974 and 755 million in 1970. The 1982 total included 309 million gallons of gasoline, 474 million of aviation fuel, and 106 million of diesel oil. The average price for unleaded gasoline rose from 69.6 cents per gallon in January 1976 to $1.633 six years later, then fell to $1.450 by June 1983.

The State is well served with scientific resources. A 1976 inventory by DPED reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Federal research and development obligations in Hawaii approached $50 million in 1981. Thirty-one patents were granted to Hawaii residents in 1982.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy (formerly the Department of Regulatory Agencies, Public Utilities Division), and individual utility companies. Detailed statistics on energy consumption appear in Hawaii Integrated Energy Assessment, Vol. IV, Energy Data Handbook, published by the State Energy Office of the Department of Planning and Economic Development in 1980. Hawaii's Scientific Resources, 1977 Directory, issued by the DPED in 1977, contains information on scientific organizations and facilities in the Islands. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1982-83, Sections 20 and 21.

Table 413.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1981

[Revised from Data Book 1982, table 371.]

Year	Petroleum (1,000 barrels)	Hydro-electric power 1/ (million kWh)	Geo-thermal power 2/ (million kWh)	Wood and waste 2/ (million kWh)	Natural gas (dry) (billion cubic feet)	Other types 3/
1960	14,495	27	0	0	0	0
1961	17,595	24	0	0	0	0
1962	16,250	20	0	0	0	0
1963	20,953	23	0	0	0	0
1964	22,689	115	0	0	0	0
1965	23,731	105	0	0	0	0
1966	26,235	112	0	2	0	0
1967	29,938	108	0	0	0	0
1968	33,194	94	0	30	0	0
1969	34,644	100	0	29	0	0
1970	35,591	108	0	24	0	0
1971	38,077	89	0	15	0	0
1972	39,140	91	0	18	0	0
1973	39,974	95	0	22	0	0
1974	37,937	92	0	30	0	0
1975	38,231	89	0	25	0	0
1976	38,879	93	0	29	0	0
1977	40,755	86	0	26	0	0
1978	41,260	84	0	0	0	0
1979	45,476	90	0	0	0	0
1980	45,249	86	0	0	0	0
1981	40,519	80	0	15	3	0

1/ Includes only utility production for 1960-1963 and industrial and utility production for 1964 and thereafter.

2/ Consumed at utilities to produce electricity.

3/ Coal and nuclear power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, 1960 Through 1981 (June 1983), p. 111.

Table 414.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1981

[Revised from Data Book 1982, table 372.]

Year	Total energy consumed 1/	Petroleum	Hydro-electric power 2/	Geo-thermal power 3/	Wood and waste 3/	Other types 4/
1960	80.0	79.7	0.3	0.0	0.0	0.0
1961	98.2	98.0	0.3	0.0	0.0	0.0
1962	91.0	90.8	0.2	0.0	0.0	0.0
1963	120.0	119.8	0.2	0.0	0.0	0.0
1964	131.3	130.1	1.2	0.0	0.0	0.0
1965	137.7	136.6	1.1	0.0	0.0	0.0
1966	152.0	150.8	1.2	0.0	(Z)	0.0
1967	173.5	172.4	1.1	0.0	0.0	0.0
1968	192.5	191.2	1.0	0.0	0.3	0.0
1969	199.8	198.4	1.0	0.0	0.3	0.0
1970	205.4	204.0	1.1	0.0	0.3	0.0
1971	219.2	218.1	0.9	0.0	0.2	0.0
1972	225.9	224.7	0.9	0.0	0.2	0.0
1973	230.8	229.6	1.0	0.0	0.2	0.0
1974	218.9	217.6	1.0	0.0	0.3	0.0
1975	220.8	219.6	0.9	0.0	0.3	0.0
1976	224.7	223.4	1.0	0.0	0.3	0.0
1977	236.1	235.0	0.9	0.0	0.3	0.0
1978	239.0	238.2	0.9	0.0	0.0	0.0
1979	261.3	260.4	0.9	0.0	0.0	0.0
1980	260.8	259.9	0.9	0.0	0.0	0.0
1981	237.2	233.2	0.8	0.0	0.2	3.0

Z Represents small, non-zero value.

1/ Totals may not equal sum of components due to independent rounding.

2/ Includes industrial and utility production.

3/ Consumed at utilities to produce electricity.

4/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, 1960 Through 1981 (June 1983), p. 111.

Table 415.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1981

[Trillion Btu. Revised from Data Book 1982, table 373.]

Year	Total energy consumed 1/	Residential 2/	Commercial 2/	Industrial 2/	Transportation 2/	Electric utilities 3/
1960	80.0	0.3	1.1	14.3	64.2	0.3
1961	98.2	0.4	1.2	20.4	76.2	0.3
1962	91.0	0.5	1.2	20.9	68.4	0.2
1963	120.0	8.9	6.0	31.2	73.9	24.2
1964	131.3	9.6	6.6	34.2	80.9	26.7
1965	137.7	10.1	6.7	37.0	83.8	27.6
1966	152.0	10.8	7.3	38.4	95.4	29.7
1967	173.5	12.1	8.0	43.2	110.3	31.3
1968	192.5	13.1	8.8	42.4	128.3	35.0
1969	199.8	14.9	9.8	44.5	130.6	38.7
1970	205.4	16.4	11.5	47.7	129.8	43.2
1971	219.2	17.8	11.4	46.7	143.3	47.7
1972	225.9	19.6	12.7	52.9	140.6	54.1
1973	230.8	20.0	13.4	52.7	144.6	55.6
1974	218.9	20.3	13.3	52.9	132.4	57.5
1975	220.8	19.6	13.8	53.9	133.6	58.8
1976	224.7	21.3	15.3	54.4	133.7	62.5
1977	236.1	21.8	16.8	56.3	141.3	65.2
1978	239.0	21.8	17.4	55.3	144.6	66.8
1979	261.3	22.9	18.1	63.9	156.4	67.7
1980	260.8	21.9	19.1	73.2	146.7	69.7
1981	237.2	23.0	18.8	71.4	123.9	69.9

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, 1960 Through 1981 (June 1983), p. 112.

Table 416.-- SOURCES OF ENERGY CONSUMPTION, BY COUNTIES: 1981

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Trillion BTU ...	263.9	213.7	21.2	9.7	19.3
Percent	100.0	100.0	100.0	100.0	100.0
Aviation fuel	33.6	41.0	2.6	0.7	1.5
Biomass 1/ ...	4.6	0.7	24.2	25.8	14.7
Gasoline	14.2	12.5	22.3	20.7	20.6
Gas 2/	2.0	2.3	1.3	0.1	0.5
Diesel	9.2	9.2	7.4	4.1	12.9
Residual	6.0	6.5	3.3	3.7	4.7
Electricity 3/	30.4	27.8	38.9	44.9	45.1

1/ Biomass is used for process steam, primarily on sugar plantations.

2/ Includes liquid petroleum gas (LPG).

3/ Includes primarily residual/diesel oils, biomass, hydropower resources used for electric generation.

Source: Hawaii State Department of Planning and Economic Development, State Energy Plan Technical Reference Document (October 1982), p. III-25.

Table 417.-- ELECTRIC UTILITIES: 1972 TO 1982

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1972 ..	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1972 ..	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	732,622	222,423	501,199

1/ Based on number of customers at end of year.
Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 418.-- ELECTRIC UTILITIES, BY ISLANDS: 1982

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total	Resi-dential	Other
State total	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
Oahu	222,636	194,468	28,168	1,347,000	5,173,535	1,371,293	3,802,243
Hawaii	37,868	31,648	6,220	116,900	452,233	183,946	268,287
Kauai	18,106	15,445	2,661	62,080	200,865	73,845	127,019
Maui County	34,399	29,151	5,248	119,000	506,074	172,213	333,861
Lanai	881	718	163	-	5,948	3,503	2,445
Maui	31,177	26,512	4,665	110,300	476,873	158,700	318,173
Molokai	2,341	1,921	420	8,700	23,253	10,010	13,243

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	6,654	107,133	0.12348	0.11061	723,622	222,423	501,199
Oahu	7,052	134,984	0.12063	0.10697	572,136	165,415	406,722
Hawaii	5,812	43,133	0.11823	0.11427	52,406	21,749	30,657
Kauai	4,781	47,734	0.15204	0.15286	30,643	11,227	19,416
Maui County	5,908	63,617	0.13955	0.13300	68,437	24,032	44,404
Lanai	4,878	14,998	0.15593	0.16035	938	546	392
Maui	5,986	68,204	0.13447	0.12850	62,224	21,340	40,884
Molokai	5,211	31,531	0.21437	0.23624	5,275	2,146	3,128

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 419.-- GAS UTILITIES: 1972 TO 1982

[Excludes bottled gas.]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1972 ...	36,083	31,806	4,277	33,322	9,321	24,000
1973 ...	35,781	31,142	4,639	34,540	8,931	25,609
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1972 ...	293	5,612	.36843	.22681	8,878	3,434	5,444
1973 ...	287	5,520	.37518	.23121	9,272	3,351	5,921
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	43,229	10,969	37,260

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 420.-- GAS UTILITIES, BY ISLANDS: 1982

[Excludes bottled gas.]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	32,905	28,979	3,926	32,223,724	6,328,871	25,894,853
Oahu	30,221	26,665	3,556	29,306,759	5,765,046	23,541,713
Hawaii	2,020	1,703	317	2,169,675	427,308	1,742,367
Kauai	276	276	-	64,946	64,946	-
Maui	388	335	53	682,344	71,571	610,773
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	218	6,596	1.73311	1.43891	48,229	10,969	37,260
Oahu	216	6,620	1.76622	1.45999	44,553	10,183	34,371
Hawaii	251	5,496	1.38997	1.24846	2,769	594	2,175
Kauai	235	-	1.49573	-	97	97	-
Maui	214	11,524	1.33004	1.16971	810	95	714
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 421.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1972 TO 1982

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1972 ..	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973 ..	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974 ..	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975 ..	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976 ..	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977 ..	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978 ..	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,275,160

1/ Net generated plus purchased power.

2/ Based on average number of customers during the year.

3/ Maximum generator nameplate. Figure for 1981 revised from Data Book 1982, table 378.

Source: Hawaiian Electric Co., Inc., records.

Table 422.-- RESIDENTIAL CUSTOMERS, VACANT UNITS, AND TURN-ONS, FOR HOUSING UNITS SERVED BY THE HAWAIIAN ELECTRIC COMPANY ON OAHU: 1977 TO 1982

Year	Residential customers, December	Vacant units, Dec.		Turn-ons, annual	
		Number	Ratio 1/	Number	Ratio 1/
1977	188,456	2,352	1.2	22,673	12.0
1978	192,280	2,362	1.2	32,779	17.0
1979	201,013	1,297	0.6	32,419	16.1
1980 2/ .	232,745	2,662	1.1	20,499	8.8
1981	241,509	1,526	0.6	33,917	14.0
1982 3/ .	227,506	1,366	0.6	20,581	9.0

1/ Per 100 residential customers, December.
2/ Revised from Data Book 1982, table 379.
3/ Data not directly comparable to earlier years.
Source: Hawaiian Electric Co., Inc., records.

Table 423.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1972 TO 1982

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1972 ...	33,479	29,256	31,643	8,258	282
1973 ...	33,142	28,813	32,610	8,041	279
1974 ...	32,455	28,200	32,166	7,522	267
1975 ...	31,856	27,778	32,885	7,600	274
1976 ...	31,443	27,429	32,649	7,490	276
1977 ...	30,926	26,993	31,831	7,007	260
1978 ...	30,659	26,722	31,842	6,797	254
1979 ...	30,582	26,686	32,135	6,736	252
1980 ...	30,471	26,625	31,636	6,455	242
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 424.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLANDS: JANUARY 1, 1983

[In dollars.]

Utility and monthly use	Oahu	Hawaii 1/	Kauai	Maui	Molokai	Lanai
Water: 2/						
5/8-inch meter, 5,000 gal.	5.45	8.20	7.60	7.95	7.95	4.00
5/8-inch meter, 10,000 gal. ...	9.65	12.35	11.20	11.90	11.90	6.75
1-inch meter, 20,000 gal.	18.05	24.65	20.40	27.30	27.30	13.50
1-1/2-inch meter, 50,000 gal. .	43.25	55.80	48.00	64.00	64.00	32.50
Electricity: 3/						
250 kilowatt-hours	28.54	33.48	41.91	36.33	66.37	43.43
500 kilowatt-hours	52.08	58.96	78.81	67.66	124.25	81.83
750 kilowatt-hours	75.62	84.44	115.72	98.99	182.12	120.25
1,000 kilowatt-hours	99.16	109.92	152.62	130.32	240.00	158.66
Gas: 3/						
10 therms	21.95	18.76	19.13	18.87	...	...
25 therms	45.88	39.40	40.33	39.68	...	...
50 therms	85.75	73.80	75.65	74.35	...	...
100 therms	165.50	142.60	146.30	143.70	...	...
Telephone: 4/						
Individual line	11.40	10.20	9.70	9.70	8.30	7.50
Two-party line	9.35	8.55	8.20	8.20	7.05	6.40

1/ Water rates are those for all districts except Kaloko Mauka Subdivision System, gas rates are for district of South Hilo.

2/ Oahu data shown here are not comparable to the 1982 Oahu rates in the Data Book 1982, table 381, which were bimonthly rather than monthly.

3/ Includes fuel adjustment and customer charge.

4/ Excludes federal excise tax (3 percent for 1983).

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Dole Company, Lanai City.

Table 425.-- LIQUID FUEL TAX BASE: 1972 TO 1982

[In thousands of gallons.]

Year reported 1/	All types	Gasoline	Diesel oil		Liq. pet. gas		Aviation fuel	Small boats	
			Non-hwy.	Hwy. use	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1972	827,825	261,452	65,163	9,523	1,231	702	487,743	264	1,747
1973	882,932	281,122	74,608	11,159	1,909	453	511,502	280	1,899
1974	824,653	270,267	75,124	11,539	2,093	789	463,728	312	801
1975	839,289	284,552	75,120	12,710	1,823	1,380	462,384	411	908
1976	850,261	295,704	79,884	13,561	1,858	1,054	456,819	464	917
1977	888,136	311,409	85,484	13,817	2,036	1,280	472,654	558	899
1978	917,380	324,702	99,755	15,233	1,821	1,216	473,270	445	938
1979	960,837	324,337	108,460	16,596	2,213	1,140	506,825	410	856
1980	939,766	312,896	101,719	17,765	2,448	1,140	502,544	338	917
1981	918,437	305,886	101,212	15,771	2,378	1,136	489,551	424	2,079
1982	893,288	308,600	88,312	17,303	2,628	960	474,477	207	802

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution" (annual report).

Table 426.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1982

[In thousands of gallons.]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	893,288	745,996	64,898	56,740	25,653
Gasoline	308,600	224,862	29,899	38,212	15,627
Diesel oil, non-hwy.	88,312	39,705	28,518	11,164	8,924
Diesel oil, hwy. use	17,303	11,362	2,947	2,354	640
Liq. pet. gas, off hwy. ..	2,628	2,033	219	309	66
Liq. pet. gas, hwy. use ..	960	744	65	117	33
Small boats, gasoline	207	157	1	48	1
Small boats, diesel oil ..	802	718	2	78	3
Aviation fuel	474,477	466,416	3,248	4,457	357

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Year Ending December 31, 1982" (annual release).

Table 427.-- FUEL OIL AND KEROSENE DELIVERIES: 1982 AND 1981

[Thousands of barrels.]

Use	Distillate fuel oil		Residual fuel oil		Kerosene	
	1982	1981	1982	1981	1982	1981
Total	4,570	6,043	13,323	13,311	-	-
Residential	-	1	-	-	-	-
Commercial	55	178	110	55	-	-
Industrial	83	107	254	290	-	-
Farm	408	450	-	-	-	-
Oil company	219	163	1,627	782	-	-
Electric utility	618	789	9,897	10,471	-	-
Military	2,102	3,193	240	127	-	-
Railroad	15	10	-	-	-	-
Vessel bunkering	65	66	860	1,116	-	-
On-highway	415	423	-	-	-	-
Off-highway	154	235	-	-	-	-
Other	436	428	335	470	-	-

Source: Energy Information Administration, Petroleum Supply Annual 1982, DOE/EIA-0340(82)/1, Vol. 1 (June 1983), pp. 135-140.

Table 428.-- GASOLINE PRICES PER GALLON CHARGED BY REPRESENTATIVE SERVICE STATIONS, FOR HONOLULU: 1909 TO 1965

[Cents per gallon, including taxes.]

Date	Regular	Premium
1909: June 1	37.5	...
1913: Apr. 1	25.0	...
1915: Apr. 3	25.0	...
1918: May	20-25	...
1920: Aug.	28.5	...
1930: June 13	21.5	24.5
June 14	18.5	21.5
1931: Dec. 3	18.0	...
1935: Sept. 5	20.0	24.0
Sept. 6	17.5	19.5
1943: June 3 1/ ...	20.5	...
June 4 1/ ...	21.3	...
Dec. 1/	21.3	...
1944: Dec. 1/ ...	21.3	...
1945: Dec. 1/ ...	21.3	...
1947: Jan. 21 ...	22.0	24.0
Jan. 22 ...	22.5	24.5
Dec. 29 ...	25.7	27.7
Dec. 30 ...	27.5	29.5
1953: Feb. 16 ...	29.3	31.9
Feb. 17 ...	32.5	34.6
1955: Feb. 24 ...	32.5	36.1
Feb. 25 ...	33.5	37.1
1956: Mar. 9	36.0	39.3
1960: Jan.	41.9	45.9
1965: Feb. 28 ...	41.9	45.9

1/ Office of Price Administration maximum.

Source: Hawaii Promotion Committee, *Hawaii, A Primer*, editions of 1909, 1913, and 1918; *Honolulu Star-Bulletin*, April 3, 1915, p. 11; Hawaii State Department of Planning and Economic Development, *Gasoline Prices in Hawaii, 1920-1980* (Statistical Report 140, August 8, 1980), table 1.

Table 429.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1973 TO 1983

[In dollars. Average prices include all applicable federal, state, and county taxes.]

Date	All types 1/	Leaded regular 2/	Unleaded regular 3/	Leaded premium 2/
1973: Oct.	...	0.452	...	0.487
Dec.	...	.477	...	.512
1974: June	...	.599	...	.632
Dec.	...	.599	...	.629
1975: June	...	.673	...	.710
Dec.	...	.691	...	.733
1976: Jan.	...	.685	0.696	.727
June	...	.684	.692	.720
Dec.	...	.702	.714	.743
1977: June	...	.723	.738	.764
Dec.	...	.722	.743	.768
1978: June	...	.741	.772	.798
Revised series 4/				
1978: June	0.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383
Dec.	1.407	1.348	1.413	1.441
1981: June	1.580	1.508	1.588	1.619
Dec.	1.584	1.520	1.586	1.621
1982: June	1.512	1.454	1.511	1.556
Dec.	1.518	1.446	1.522	1.566
1983: June	1.455	1.391	1.450	1.506

1/ Includes types not shown separately. Not calculated before June 1978.

2/ Survey initiated October 1973.

3/ Survey initiated January 1976.

4/ Not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, Retail Prices and Indexes of Fuels and Utilities (monthly, 1973-1978), Consumer Prices: Energy and Food (monthly, 1979-forward), and printouts for 1978-1979.

Table 430.-- GASOLINE SERVICE STATIONS: 1977

[Data are shown only for establishments with payroll.]

Subject	State total	Oahu only
Number of establishments	381	276
Offering self-service sale of gasoline	55	47
Offering sale of diesel fuel	23	(NT)
Sales ($1,000)	172,799	131,285
Gallon sales (1,000):		
Gasoline, total	191,781	146,086
Through self-service	18,578	16,308
Other automotive fuels	3,734	3,548
Pumps, Dec. 31:		
Gasoline, total	2,006	1,595
Self-service	166	147
Other automotive fuel	40	23

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 2, 3, 4, 5, and 6.

Table 431.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1981 AND 1982

[In barrels of 42 gallons.]

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1981	1,076,215	39,249	43,170	199,938	793,858
1982	1,072,715	45,995	33,366	504,811	488,543

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1981 (FT810-81-13, March 1982) and Annual 1982 (FT810-82-13, March 1983).

Table 432.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1982

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	663	2,678	4,992
Hawaii	81	233	770
Maui	64	219	484
Lanai	3	2	29
Molokai	7	29	28
Oahu	460	2,078	3,407
Kauai	48	117	274

1/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupation Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 433.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR PLANTATIONS, BY ISLANDS: 1981

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated	775.50	257.03	205.79	190.73	121.95
Purchased	74.93	3.37	3.26	15.85	52.45
Sold	269.89	156.86	93.99	17.26	1.78
Used 1/	580.54	103.54	115.06	189.32	172.62
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	26,704	10,321	5,744	6,482	4,157
Bagasse	23,825	9,432	5,436	5,289	3,668
Fuel oil	2,612	875	240	1,160	337
Other fuels	267	14	68	33	152

1/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, Energy Inventory of Hawaiian Sugar Plantations--1981, pp. 8-11.

Table 434.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS, BY TYPE OF FUEL OR ENERGY: 1980

Subject	Amount
Purchased fuels and electric energy:	
British thermal units (trillions)	13.2
Cost (million dollars)	76.3
Electric energy:	
Purchased:	
Quantity (million kWh)	556.1
Cost (million dollars)	29.6
Generated less sold (million kWh)	227.7
Purchased fuels:	
British thermal units (trillions)	11.3
Cost (million dollars)	46.7
Distillate fuel oil:	
Quantity (1,000 barrels)	(D)
Cost (million dollars)	(D)
Residual fuel oil:	
Quantity (1,000 barrels)	507.5
Cost (million dollars)	12.2
Natural gas:	
Quantity (billion cubic feet)	.3
Cost (million dollars)	.6
Liquefied petroleum gases:	
Quantity (million pounds)	2.7
Cost (million dollars)	.2
Other fuels (million dollars)	2.5
Fuels not specified by kind (million dollars)	(D)

Footnote and source follow next table.

Table 435.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS: 1979 AND 1980

Industry group	British thermal units (trillions)		Cost (million dollars)	
	1979	1980	1979	1980
All manufacturing	12.9	13.2	52.9	76.3
Food and kindred products	5.2	5.2	20.6	30.5
Preserved fruits and vegetables ...	.9	.9	4.0	4.9
Sugar, confectionery products	3.1	3.2	11.4	19.4
Printing and publishing	.2	.2	1.1	1.6

D Withheld to avoid disclosure of information pertaining to a specific organization.

Source: U.S. Bureau of the Census, 1980 Annual Survey of Manufactures, Fuels and Electric Energy Consumed, M80(AS)-4.2 (October 1982), pp. 42-43.

Table 436.-- OCCUPIED HOUSING UNITS WITH SOLAR HEATING DEVICES, BY COUNTIES: 1981

[Based on a sample survey of 6,654 occupied units.]

County	Number	Percent
State total	19,292	6.8
Honolulu	12,197	5.4
Hawaii	1,848	6.3
Kauai	1,847	17.8
Maui	3,400	16.9

Source: Unpublished data from Hawaii State Department of Health, Hawaii Health Surveillance Program, compiled for Hawaii State Department of Planning and Economic Development, Division of Energy.

Table 437.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1970 TO 1981

[Millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	Total federal R and D obligations	Federal obligations for R and D plant
1970	43.8	.5
1971	38.3	2.2
1972	47.4	.9
1973	47.9	.4
1974	53.1	.4
1975	43.0	6.2
1976	45.5	2.8
1977	36.9	.5
1978	44.6	.7
1979	40.8	.5
1980	42.6	.2
1981	49.9	.7

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, NSF 82-326, pp. 187-188.

Table 438.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1974 TO 1981

[Thousands of dollars.]

Fiscal year	Total R and D expenditures	Federally financed R and D expenditures
1974	21,143	14,065
1975	24,596	15,540
1976	28,049	17,578
1977	28,900	17,945
1978 1/	31,971	19,781
1979	35,703	22,500
1980	40,593	25,833
1981	42,997	25,153

1/ Data were collected only from doctorate-granting institutions.

Source: National Science Foundation, Academic Science/Engineering, R and D Funds, Fiscal Year 1981, NSF 83-308, pp. 26-27.

Table 439.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1973 TO 1982

[Unless otherwise indicated, data include design, plant, and reissue patents.]

Year ended —	Patents
1973: Dec. 31 [1]	50
1974: June 30	55
1975: June 30	61
1976: June 30	51
1977: Sept. 30	43
1978: Sept. 30	41
1979: Sept. 30	32
1980: Sept. 30	32
1981: Sept. 30	49
1982: Sept. 30	31

[1] Excludes reissue patents.

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year 1979, p. 31, and Fiscal Year 1982, p. 49.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 455,000 in 1972 to 672,000 in 1982. Vehicle miles rose during the same period from 3.8 billion to 6.0 billion. Hawaii residents purchased 37,000 new passenger cars in 1982 and scrapped or shipped out approximately 13,000. By the end of 1982, 561,000 licensed drivers had access to 4,060 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 31 million in 1972 to 74 million in 1982. Registered bicycles numbered 108,000 in 1974 and 62,000 in 1982.

Most scheduled interisland travel is now by air. In 1982, airlines and air taxis reported 7.3 million interisland passengers, almost two times their 1972 total, and carried 57,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 8 civilian heliports, 3,532 active pilots, and about 623 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 542 in 1982, air arrivals increased during the same 24-year span from 224,000 to 4.7 million. Overseas cargo received in the State in 1980 amounted to 57,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1982 numbered 12,999, compared with 10,250 in 1972. Median length was 18 feet, and four-fifths were stored on land. There were also 1,225 or so documented vessels in the State in 1982, almost double the 1972 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1982-83, Sections 22 and 23.

Table 440.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1982

[Excludes private thoroughfares and military roads not regularly open to public use.]

Island	Total 1/	Paved	Unpaved
State total	4,059.83	3,749.30	310.53
Hawaii	1,561.36	1,406.61	154.75
Maui	607.33	536.92	70.41
Lanai	45.83	31.83	14.00
Molokai	127.16	115.16	12.00
Oahu	1,370.74	1,334.14	36.60
Kauai	347.41	324.64	22.77
Niihau	-	-	-

1/ Includes 36.27 miles of freeway, all on Oahu.

Source: Hawaii State Department of Transportation, data provided July 5, 1983.

Table 441.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1982

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State total	1,093	Pearl City Viad.	5,946	Nanue	208
Hawaii ...	251	Hakalau	775	Nanue	208
Maui	150	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai ..	19	Manawainui	325	Manawainui	50
Oahu	592	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90
Niihau ...	-	None	...	None	...

Source: Hawaii State Department of Transportation, information provided April 4, 1983.

Table 442.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1982

Island and name of tunnel		Length (feet)
All tunnels		9,376
Oahu:		
Pali No. 1:	Inbound	1,000
	Outbound	1,080
Pali No. 2:	Inbound	500
	Outbound	497
Wilson:	Inbound	2,775
	Outbound	2,813
Middle Street (CD)		393
Maui:		
Olowalu		318

Source: Hawaii State Department of Transportation, information submitted April 4, 1983.

Table 443.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1980

Island	Signalized intersections	Metered parking spaces	
		On-street	Off-street
State total	586	3,442	4,308
Hawaii	30	458	291
Maui	14	-	26
Lanai	-	-	-
Molokai	-	-	16
Oahu	537	2,984	3,887
Kauai	5	-	88
Niihau	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 444.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1972 TO 1982

[Taxable and non-taxable, including military non-resident exempt vehicles.]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1972	468,410	454,829	390,062	97	1,347
1973	499,525	484,521	413,839	99	1,724
1974	510,627	495,037	420,228	90	1,951
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863

Year	Motor vehicles — continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters 2/	
1972	50,451	1,696	776	10,400	13,581
1973	56,002	1,747	767	10,343	15,004
1974	59,759	1,796	766	10,447	15,590
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955

Footnotes and source on next page.

Table 444.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1972 TO 1982 -- Con.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 445.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1972 TO 1982

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1972	454,829	354,544	45,316	20,766	34,203
1973	484,521	375,763	49,053	22,167	37,538
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 446.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1972 TO 1982

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1972	390,062	310,144	35,623	16,716	27,579
1973	413,839	327,638	38,299	17,766	30,136
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 447.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1982

[Taxable and non-taxable, including military non-resident exempt vehicles.]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	689,468	505,437	81,284	35,931	66,816
Motor vehicles	671,513	495,629	77,024	33,931	64,929
Passenger vehicles 1/	566,060	429,244	59,103	26,297	51,416
Ambulances 2/	80	60	9	7	4
Buses	3,863	2,937	328	204	394
Trucks 1/, ...	88,410	53,219	16,078	6,955	12,158
Truck tractors 3/	1,395	676	367	142	210
Truck cranes 4/	388	150	109	44	85
Motorcycles 5/	11,317	9,343	1,030	282	662
Trailers and semi-trailers ..	17,955	9,808	4,260	2,000	1,887

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles beginning in 1979 are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation.

Table 448.-- VEHICLES AVAILABLE TO HOUSEHOLDS: 1960 TO 1980

Vehicles available 1/	State total			Oahu only: 1980
	1960	1970	1980	
All households	153,012	203,089	294,052	230,214
None	25,871	22,170	30,509	25,628
1	88,320	93,854	115,357	95,735
2	32,577	69,343	94,699	71,456
3 or more	6,244	17,722	53,487	37,395

1/ "Automobiles available" before 1980.

Source: U.S. Bureau of the Census, U.S. Census of Housing: 1960, State and Small Areas, Hawaii, HC(1)-13 (1961), table 6; Census of Housing: 1970, Detailed Housing Characteristics, Hawaii, HC(1)-B13 (December 1961), table 36; 1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, Hawaii PHC80-S2-13 (September 1982), table H-1.

Table 449.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1981 AND 1982

[As of December 31.]

Island	Taxis		Bicycles	
	1981	1982	1981	1982
State total	1,605	1,730	69,328	62,017
Hawaii	66	76	3,549	2,467
Maui	111	123	2,232	1,903
Lanai	2	2	132	174
Molokai	-	2	198	110
Oahu	1,381	1,481	61,783	56,173
Kauai	45	46	1,434	1,190
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 450.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE REGISTRATION: 1972 TO 1982

Year	Net increase since previous year	New cars registered	Scrapped or shipped out
1972 ..	18,357	37,484	19,127
1973 ..	23,777	41,919	18,142
1974 ..	6,389	30,932	24,543
1975 ..	9,815	33,693	23,878
1976 ..	22,573	38,006	15,433
1977 ..	22,752	44,482	21,730
1978 ..	14,510	44,383	29,873
1979 ..	20,475	40,481	20,006
1980 ..	4,316	37,104	32,788
1981 ..	27,263	39,188	11,925
1982 ..	24,128	37,137	13,009

Source: Net increase from City and County of Honolulu, Department of Data Systems, unpublished tabulations. New cars registered from R. L. Polk and Co. data for 1972-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and 1979 and later years in MVMA Motor Vehicle Facts and Figures for 1981 (p. 15) and 1983 (p. 20). Vehicles scrapped or shipped out of State computed as a residual.

Table 451.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1979 TO 1982

Year	Total	Passenger cars	Motor trucks
1979	48,371	40,481	7,890
1980	46,664	37,104	9,560
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures for 1981 (p. 15) and 1983 (p. 20).

Table 452.-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1982

[As of December 31.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973	495,043	399,672	45,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 453.-- NEW PASSENGER CAR REGISTRATIONS, BY ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF HONOLULU: 1980 TO 1982

Origin and make of vehicle	1980	1981	1982
Total	31,934	32,037	31,469
Domestic 1/	12,334	13,298	13,273
Buick	1,218	1,210	1,301
Chevrolet	2,469	2,551	1,271
Dodge	410	647	1,032
Ford	3,297	3,895	3,710
Lincoln	(NA)	304	455
Mercury	885	1,866	3,400
Oldsmobile	699	595	366
Plymouth	1,103	678	308
Pontiac	828	811	751
Other makes	2/ 1,425	741	679
Foreign 1/	19,600	18,739	18,196
Datsun	3,881	3,160	3,682
Honda	2,678	3,661	3,345
Mazda	3,370	2,819	2,777
Subaru	1,147	1,200	929
Toyota	5,435	5,319	5,370
Volkswagen	1,680	1,075	757
Other makes	1,409	1,505	1,336

NA Not available.

1/ Vehicles manufactured abroad but sold under domestic nameplates are included in the domestic subtotals. Vehicles manufactured domestically but sold under foreign nameplates are included in the foreign subtotals.

2/ Includes Lincoln.

Source: Cardinal Mailing Services, Ltd., records.

Table 454.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1972 TO 1982

Year and county	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
1972	268,407	601	3,757.7	8,414
1973	289,847	608	4,057.9	8,511
1974	279,996	574	3,919.9	8,038
1975	296,160	590	4,146.2	8,263
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007

Footnotes and source follow next table.

Table 455.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, BY COUNTIES: 1982

County	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
State total ..	323,827	482	6,048.3	9,007
Honolulu	235,605	479	4,322.3	8,786
Hawaii	40,101	512	767.5	9,799
Kauai	15,916	450	366.5	10,364
Maui	32,205	489	592.0	8,984

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Beginning in 1980, based on weighted annual average vehicle miles traveled per type of vehicle by county of inspection. Data for 1979 and earlier years based on an average of 14 miles per gallon and thus not comparable to 1980 and later figures.

3/ Motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 456.-- AVERAGE SPEEDS ON HIGHWAYS: 1976 TO 1981

[In miles per hour. Years ended June 30 through 1976 and September 30 thereafter.]

Year	Interstate		Multi-lane divided	Two-lane rural
	Urban	Rural		
1976	54.0	55.2	52.1	51.3
1977	54.7	56.0	53.5	52.3
1978	54.1	56.3	52.6	52.0
1979	54.8	55.7	53.3	53.2
1980	53.3	54.5	51.6	51.8
1981	54.0	55.1	(NA)	(NA)

NA Not available.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 457.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: OCTOBER 1980 TO SEPTEMBER 1981

Measurement	State-wide	Urban: inter-state	Rural		
			Inter-state	Other arter-ials 1/	Major collect-ors
Miles per hour:					
Average speed	53.0	54.0	55.1	51.1	52.8
Median speed	53.3	54.4	55.5	51.4	52.7
85th percentile speed	59.5	61.2	61.5	57.2	58.9
Percent exceeding —					
55 miles per hour	36.4	43.4	49.4	25.0	31.8
60 miles per hour	13.4	17.6	18.7	7.9	10.7
65 miles per hour	3.7	5.0	4.6	2.2	3.9

1/ Principal and minor arterials, except interstate.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 1981, pp. 171-172.

Table 458.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1972 TO 1982

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source follows next table.

Table 459.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1982

County	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	16,407	143	11,865	161
Honolulu	12,180	84	8,659	94
Hawaii	2,028	34	1,678	36
Kauai	755	7	461	7
Maui	1,444	18	1,067	24

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 460.-- BUS SERVICE, FOR OAHU: 1970 TO 1982

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971.]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000
1980	400	16,579,392	71,601,744
1981	400	16,748,338	73,546,802
1982	400	16,767,816	74,109,528

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 461.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1980 TO 1982

[Calendar year data for City and County of Honolulu bus system.]

Fare category	1980	1981	1982
All passengers	71,601,744	73,546,802	74,109,528
Adults, full fare	36,799,259	38,743,828	39,538,266
Students	16,765,875	16,483,937	15,967,924
School subsidy	150,972	209,827	235,927
Stadium express	18,162	16,376	18,828
Senior citizens and handicapped	9,301,724	9,579,937	9,632,807
Chartered service	10,015	11,131	9,259
Free transfers	8,555,737	8,501,766	8,706,517

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 462.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1982

Year	Revenues 1/ (dollars)	Cash fares 2/ (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD.			
1970	4,970,000	25	15
CITY AND COUNTY OF HONOLULU			
1971 3/	1,246,351	25	10
1972	4,445,817	25/50	10/25
1973	5,254,908	25/50	10/25
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 4/	17,388,760	50	25
1981	17,991,735	50	25
1982	18,269,144	50	25

1/ Calendar year data for 1970 and 1980-1982; fiscal years ending June 30 for 1971-1979.

2/ As of December 31, 1970 and June 30, 1971-1982.

3/ Service commenced March 1; revenues are for 4-month period.

4/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost $15.00; student passes $7.50.

Source: HRT data from Hawaii State Department of Regulatory Agencies, Public Utilities Division, records; other data from MTL, Inc., provided by the City and County of Honolulu, Department of Transportation Services.

Table 463.-- MEANS OF TRANSPORTATION TO WORK AND PRIVATE VEHICLE OCCUPANCY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Workers 16 years and over	457,717	36,868	369,523	81	17,827	33,418
Car, truck or van	359,207	31,950	282,479	51	16,033	28,694
Drive alone	253,168	24,552	195,727	45	12,135	20,709
Carpool	106,039	7,398	86,752	6	3,898	7,985
Public transportation	38,100	571	37,042	–	37	450
Walked only	37,112	2,195	31,069	30	1,011	2,807
Other means	14,445	779	12,553	–	406	707
Worked at home	8,853	1,373	6,380	–	340	760
Persons per private vehicle	1.20	1.15	1.21	...	1.17	1.20

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2-13 (September 1982), table P-2.

Table 464.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1977 TO 1982

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State.]

Calendar year	Miles of track	Passengers
1977	6	85,933
1978	6	94,115
1979	6	103,206
1980	6	111,600
1981	6	125,640
1982	6	155,059

Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 5, 1983.

Table 465.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1982

Island	Airports 1/				Heliports 2/	
	State		Military	Semi-private	State: commercial	Semi-private
	Commercial	General aviation				
State total	8	6	6	3	1	7
Hawaii	3	1	1	1	-	2
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	-
Kauai	1	1	1	1	1	3
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available). Changes since 1981 reflect the reclassification of Hana and Kalaupapa Airports from commercial to general aviation and the abandonment of the French Frigate Shoals airstrip.

2/ Excludes military and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided January 6, 1983.

Table 466.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1972 TO 1982

[An aircraft operation is an aircraft arrival or departure.]

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport	Lihue Airport
1972 1/	297,861	50,333	75,482	43,316
1973 1/	309,144	48,138	74,443	57,649
1974 1/	305,724	47,715	74,883	50,821
1975 1/	319,776	51,145	77,062	53,356
1976	320,565	52,679	90,455	58,865
1977	329,926	60,377	100,655	65,636
1978	379,106	52,677	125,291	74,583
1979	412,739	51,703	127,477	71,033
1980	375,408	49,969	111,573	62,829
1981	339,359	53,274	102,760	59,404
1982	308,728	47,964	112,428	65,305

1/ Revised from Data Book 1982, table 420.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), pp. 20, 33, 37, and 42.

Table 467.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1982

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International	308,728	128,558	70,574	80,737	28,859
Gen. Lyman	47,964	13,550	4,682	17,793	11,939
Kahului	112,428	49,494	28,350	24,538	10,046
Lihue	65,305	16,214	35,559	12,082	1,450
Keahole	51,889	13,945	15,112	14,392	8,440
Molokai	69,142	6,563	43,963	14,203	4,413

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3.

Table 468.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN: 1976 TO 1981

Year	U.S. active civil aircraft, Dec.			Hours flown by general aviation aircraft 1/	
	Air carrier 2/	General aviation 1/			
		Number	Standard error	Number (1,000)	Standard error (1,000)
1976	21	365	...	...	...
1977	21	541	255	182	92
1978	18	475	262	202	128
1979	19	530	130	255	76
1980	17	385	123	157	66
1981	18	623	181	288	131

1/ For aircraft based in Hawaii. Data for 1977 and later years based on samples with specified standard errors. The number of general aviation aircraft actually registered in Hawaii as of December 31, 1977, was 446.

2/ Aloha and Hawaiian.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 469.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS, AND NONPILOT AIRMEN IN THE PACIFIC REGION: 1976 TO 1981

[As of December 31. Data prior to 1981 include American Samoa, Guam, Northern Mariana Islands, and Trust Territory of the Pacific Islands, as well as Hawaii. Data for 1981 are limited to Hawaii.]

Year	Active pilots	Active flight instructors	Active nonpilot airmen 1/
1976	3,037	195	2,516
1977	3,241	207	2,660
1978	3,586	256	2,797
1979	3,972	280	2,897
1980	3,948	314	3,003
1981	3,532	276	2,965

1/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 470.-- TRANSPACIFIC AIRLINES SERVING HAWAII: JUNE 30, 1982 AND 1983

Category	1982	1983
Total	27	31
Domestic airlines	15	18
Foreign airlines	12	13

Source: Hawaii Visitors Bureau, Research Department, data provided June 30, 1982 and July 5, 1983.

Table 471.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1972 TO 1982

[Calendar years. Data include both revenue and non-revenue passengers.]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, *Airport Statistics for 1982, Statewide Airport System* (February 1983), pp. 3-7, and earlier tabular releases and records.

Table 472.-- SEATS, PASSENGERS, AND LOAD FACTORS FOR SCHEDULED FLIGHTS BETWEEN HAWAII AND THE MAINLAND: 1971 TO 1981

[Based on data for eight airlines.]

Year	Revenue seats available	Revenue passengers	Load factor (percent)
1971	6,164,106	2,944,928	47.8
1972	6,158,548	3,364,482	54.6
1973	6,683,587	3,671,587	54.9
1974	6,052,217	3,749,743	62.0
1975	6,388,777	3,800,808	59.5
1976	6,660,621	4,324,093	64.9
1977	7,342,217	4,597,979	62.6
1978	7,355,562	5,307,306	72.2
1979	7,475,246	5,642,474	75.5
1980	7,431,600	5,109,531	68.8
1981	7,314,063	5,080,049	69.4

Source: Data compiled by the Hawaii Visitors Bureau from *Aviation Daily* magazine.

Table 473.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1980 TO 1982

Subject	1980	1981	1982
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	77.8	73.4	71.8
Aircraft revenue miles 2/ (1,000)	9,229	8,843	8,678
Average airborne speed 2/ (miles per hour)	318	321	310
Average available seats per aircraft mile flown 2/	131.0	133.7	134.6
Revenue passengers: 2/			
Enplanements (1,000)	5,981	5,531	5,596
Load factor (percent)	63.7	60.7	63.0
Revenue ton-miles (1,000): 2/			
Freight	2,544	1,993	1,816
Mail	977	1,019	1,089
Number of employees 3/	2,689	2,203	1,882
Operating revenues ($1,000)	180,498	183,987	176,375
Operating profit or loss ($1,000)	2,944	-5,554	-6,317
Average passenger revenues per revenue passenger-mile 2/ (cents)	22.6	23.8	22.6
Average freight revenues per revenue ton-mile 2/ (dollars)	2.06	2.58	2.96

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.
2/ Scheduled service only.
3/ December data.

Source: Civil Aeronautics Board, CAB Form 41 schedules submitted by air carriers to CAB.

Table 474.-- AIR CARGO AND AIRMAIL: 1972 TO 1982

[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1972 2/ ...	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strikes of January 17 - February 19, and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3, and tabular releases and records.

Table 475.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1982

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Out-going	In-coming	Out-going	In-coming	Out-going	In-coming
OVERSEAS						
Total	4,641,716	4,669,747	77,639	52,694	10,640	12,503
Honolulu	4,585,094	4,607,145	75,446	51,670	10,563	12,503
General Lyman ...	46,533	51,114	2,193	1,024	77	-
Kahului	10,089	11,488	-	-	-	-
INTERISLAND						
Total	7,327,447	7,327,447	57,019	57,019	7,507	7,507
Honolulu	3,207,960	3,210,556	31,426	22,127	4,462	2,985
General Lyman ...	477,813	530,506	14,884	7,547	1,187	1,219
Upolu	785	847	-	-	-	-
Waimea-Kohala ...	4,263	4,578	-	-	-	-
Keahole	601,014	549,604	3,270	4,056	393	668
Kahului	1,767,925	1,767,876	3,871	14,775	966	1,583
Hana	10,300	9,903	-	-	-	-
Kaanapali	56,464	53,732	-	-	-	-
Molokai	123,230	126,403	319	444	45	158
Kalaupapa	3,113	3,037	26	88	-	-
Lanai	22,052	22,111	30	118	3	-
Lihue	1,044,519	1,040,537	3,193	7,864	451	894
Other airports ..	8,009	7,757	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (882,832), all through Honolulu International Airport.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3.

Table 476.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1982

[Year ended December 31, 1982. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions.]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Los Angeles	2,569	10	1,035	3	2,664,260
Honolulu-Kahului	100	17	845	398	84,683
Honolulu-Lihue	102	26	707	443	74,549
Honolulu-Hilo	216	45	517	291	114,308
Honolulu-San Francisco	2,397	54	475	12	1,152,791
Honolulu-Kona	169	76	383	480	68,645
Honolulu-New York	4,973	105	307	7	1,544,386
Honolulu-Seattle	2,679	180	192	39	535,689
Kahului-Los Angeles	2,499	235	148	58	392,648
Honolulu-Chicago	4,251	250	142	34	611,275
Honolulu-Oakland	2,409	288	123	85	298,046
Honolulu-San Diego	2,614	301	115	82	305,593
Honolulu-Las Vegas	2,762	356	98	95	276,875
Honolulu-Dallas-Fort Worth	3,784	377	92	68	354,622
Honolulu-Philadelphia	4,924	393	89	48	442,646
Honolulu-Washington, D.C.	4,828	637	56	99	272,810

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: Civil Aeronautics Board, Domestic Origin-Destination Survey of Airline Passenger Traffic, calendar year 1982.

Table 477.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1983

Subject	Effective date of change in fare					
	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981	June 17, 1981
First class, F 1/	319.13	351.14	365.11	384.12	415.12	425.13
Fare	316.00	348.00	365.00	384.00	415.00	425.00
Tax	3.13	3.14	0.11	0.12	.12	.13
Coach, weekend, YW 1/ .	221.09	243.10	252.08	265.08	286.09	296.09
Fare	218.00	240.00	252.00	265.00	286.00	296.00
Tax	3.09	3.10	0.08	0.08	0.09	0.09
Coach, weekday, YX 1/ .	211.08	233.09	252.08	265.08	286.09	296.09
Fare	208.00	230.00	252.00	265.00	286.00	296.00
Tax	3.08	3.09	0.08	0.08	.09	.09
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5.02	5:02	5:02	5:02
	Oct. 1, 1981	Mar. 1, 1981	Apr. 1, 1982	June 1, 1982	Sept. 1, 1982	June 15, 1983
First class, F 1/	392.12	412.12	412.12	412.12	415.16	415.16
Fare	392.00	412.00	412.00	412.00	412.00	412.00
Tax	.12	.12	.12	.12	3.16	3.16
Coach, weekend, YW 1/ .	280.08	219.07	310.09	328.10	331.13	353.14
Fare	280.00	219.00	310.00	328.00	328.00	350.00
Tax	.08	.07	.09	.10	3.13	3.14
Coach, weekday, YX 1/ .	280.08	219.07	310.09	328.10	331.13	353.14
Fare	280.00	219.00	310.00	328.00	328.00	350.00
Tax	.08	.08	.09	.10	3.13	3.14
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:00	5:00	5:00	5:00	5:00	5:00

1/ Total regular one-way fare, including taxes, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: United Airlines, printed schedules and records.

Table 478.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1983

Subject	Effective date of change in fare					
	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981	May 1, 1981	Oct 15, 1981	May 1, 1982
HONOLULU - HILO						
Total one-way fare 1/	56.00	59.00	61.00	63.00	53.00	56.00
Fare	51.85	56.19	58.10	60.00	50.48	53.33
Tax	4.15	2.81	2.90	3.00	2.52	2.67
Aircraft 2/	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	44.00	47.00	49.00	51.00	43.00	46.00
Fare	40.74	44.76	46.67	48.57	40.95	43.81
Tax	3.26	2.24	2.33	2.43	2.05	2.19
Aircraft 2/	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	44.00	47.00	49.00	51.00	43.00	46.00
Fare	40.74	44.76	46.67	48.57	40.95	43.81
Tax	3.26	2.24	2.33	2.43	2.05	2.19
Aircraft 2/	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

Continued on next page.

Table 478.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1983 — Con.

Subject	Effective date of change in fare					
	Jun. 1, 1982	Aug. 1, 1982	Sept. 1, 1982	Jan. 1, 1983	Feb. 1, 1983	July 1, 1983
HONOLULU - HILO						
Total one-way fare 1/	58.00	63.00	65.00	65.00	45.00	49.95
Fare	55.24	60.00	60.19	60.19	41.67	46.25
Tax	2.76	3.00	4.81	4.81	3.33	3.70
Aircraft 2/	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	48.00	53.00	54.50	54.50	45.00	49.95
Fare	45.71	50.48	50.46	50.46	41.67	46.25
Tax	2.29	2.52	4.04	4.04	3.33	3.70
Aircraft 2/	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	48.00	53.00	54.50	54.50	45.00	49.95
Fare	45.71	50.48	50.46	50.46	41.67	46.25
Tax	2.29	2.52	4.04	4.04	3.33	3.70
Aircraft 2/	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

1/ Total regular one-way fare, including taxes and other charges, in dollars.

2/ For fastest scheduled flights on this route. Flight time is average scheduled flight time eastbound and westbound, in hours and minutes

Source: Hawaiian Airlines, printed schedules and records.

Table 479.-- STATE COMMERCIAL HARBORS: 1983

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	64	341
Kawaihae	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului	35	35	1,450	2,000	2,794	122	638
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	19,255	2,132	6,554
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,092	24	33

Source: Hawaii State Department of Transportation, Harbors Division, data supplied March 23, 1983.

Table 480.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1973 TO 1983

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678
1980	Dec. 31	1,143	Dec. 31	13,459
1981	June 30	1,141	Dec. 31	13,405
1982	June 30	1,225	Dec. 31	12,999
1983	June 30	1,300	...	...

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. The data for 1982 and 1983 are Coast Guard estimates.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 481.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1982

Subject	Number	Subject	Number
Certificates outstanding	12,999	Type of vessel: 1/	
		Cabin motorboat	1,830
Length: 1/		Open motorboat	4,987
Under 16 feet	5,001	Runabout	2,866
16 to less than 26 feet	6,661	Sail/inboard	573
26 to less than 40 feet	1,118	Sail/outboard	677
40 to 65 feet	196	Sail only	1,435
Over 65 feet	7	Motor vessel over 65 feet	6
Median (feet)	18.2	Other	609
Hull materials: 1/		Uses:	
Wood	2,208	Pleasure	11,319
Steel	28	Commercial fishing	1,157
Aluminum	430	Charter fishing	18
Plastic	9,845	Commercial passenger	76
Other	472	Other commercial	37
		Livery	92
Propulsion: 1/		Dealers or manufacturers	20
Inboard	847	Youth group	26
Outboard	7,209	Government	193
Inboard/outboard	1,993	Other	61
Sail/inboard	574		
Sail/outboard	622	Island kept: 1/	
Sail only	1,460	Hawaii	1,770
Other	278	Kauai	980
		Lanai	53
Type of storage: 1/		Maui	890
On water	2,646	Molokai	200
On land	10,337	Oahu	9,090

1/ Data exclude 16 dealer registrations.

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 482.-- BOATING ACCIDENTS: 1977 TO 1982

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2
1979	59	3	7	9	66	429.2
1980	71	1	1	8	86	917.6
1981	43	-	-	5	52	404.5
1982	60	6	8	4	77	1,082.2

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 483.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1972 TO 1982

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 484.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1980

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors ..	10,096	3,624	203	3,373	2,664	232	(NA)	(NA)
Hilo	710	129	18	297	236	30	636	74
Kawaihae	298	14	3	167	108	6	282	16
Kahului	928	125	22	380	361	40	787	141
Kaunakakai	650	-	-	335	313	2	(NA)	(NA)
Kalaupapa	10	-	-	6	4	-	10	-
Honolulu	6,537	3,230	67	1,716	1,420	104	5,818	719
Barbers Point	342	71	80	164	1	26	263	79
Nawiliwili	469	54	10	213	169	23	405	64
Port Allen	152	1	3	95	52	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1980, Part 4 (1982), pp. 105-106.

Table 485.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1981

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel: Self propelled vessels: Passenger and dry cargo	Tanker	Towboat or tugboat
All spec. harbors ..	9,156	1,978	191	3,243
Hilo	857	129	18	298
Kawaihae	334	6	4	135
Kahului	1,080	103	16	384
Kaunakakai	735	-	-	370
Kalaupapa	7	-	-	6
Honolulu	5,357	1,685	60	1,708
Barbers Point	224	5	86	101
Nawiliwili	488	49	7	203
Port Allen	74	1	-	38

Harbor	By type of vessel — con.: Non-self propelled vessels: Dry cargo	Tanker	By draft: 18 feet and less	19 feet and more
All spec. harbors ..	3,209	535	(NA)	(NA)
Hilo	333	79	810	47
Kawaihae	179	10	326	8
Kahului	478	99	938	142
Kaunakakai	346	19	(NA)	(NA)
Kalaupapa	1	-	7	-
Honolulu	1,647	257	4,688	669
Barbers Point	3	29	140	84
Nawiliwili	211	18	469	19
Port Allen	11	24	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1981, Part 4 (1983), pp. 101-102.

Table 486.-- TRANSPACIFIC AND INTERISLAND SURFACE PASSENGER MOVEMENTS: 1973 TO 1983

[Data limited to revenue passengers.]

Year	Transpacific passengers 1/ (years ended June 30)			Inter-island passenger arrivals 2/ (calendar years)
	Arrivals	Departures	Through	
1973 ...	9,742	7,585	(NA)	-
1974 ...	5,756	5,975	(NA)	-
1975 ...	5,795	5,284	(NA)	71,807
1976 ...	5,829	5,987	(NA)	196,366
1977 ...	5,940	5,476	(NA)	270,128
1978 ...	4,763	4,151	(NA)	11,000
1979 ...	551	318	11,536	-
1980 ...	399	353	11,421	15,763
1981 ...	616	604	10,214	33,108
1982 ...	542	461	6,785	39,057
1983 ...	741	741	8,419	(NA)

NA Not available.

1/ Data limited to the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the Mariposa and Monterey on April 2, 1978.

2/ Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. Interisland cruise ship service was begun June 21, 1980. The 1978 figure is an estimate based on the daily average for 1977.

Source: Transpacific passengers, 1979 and later years, from TheoDavies Marine Agencies, Inc., records; interisland passengers, 1980 and later years, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 487.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1981

Subject and year	Hilo	Kawaihae	Kahului	Honolulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
PASSENGERS 3/						
1970	4,457	-	-	690,906	-	4,228
1971	2,148	-	-	518,603	-	1,683
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1981, Part 4, pp. 29-34.

Table 488.-- OVERSEAS AND INTERISLAND SHIPPING: 1970 TO 1980

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,644,459	9,544,639	3,099,820	4,542,491	2,274,346	2,268,145
1978 1/.	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	3,273,740
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384

1/ Corrected from Data Book 1982, table 442.

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual), and printouts.

Table 489.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1980

[In short tons.]

Harbor and commodity 1/	Total	Foreign		Interstate 2/	
		Imports	Exports	Receipts	Shipments
Hilo	1,102,019	25,304	41,777	102,364	220,987
Sugar	188,882	-	-	-	188,837
Fabricated metal products	168,697	-	-	1,055	4
Kawaihae	518,116	408	66,585	365	187,247
Sugar	165,763	-	-	-	165,763
Kahului	1,441,524	31,916	46,278	49,638	317,522
Sugar	270,645	-	5	-	269,672
Fabricated metal products	256,423	358	-	1,341	4
Honolulu	7,646,270	1,174,591	112,181	2,504,772	865,181
Fresh fruits, tree nuts	303,352	1,071	2,361	21,580	56,744
Fresh and frozen vegetables	155,896	252	185	86,331	290
Prep. fruit, veg. juice	404,961	2,292	2,129	8,285	285,020
Molasses	175,423	-	-	-	120,853
Alcoholic beverages	187,279	2,227	1,597	158,660	634
Lumber	201,261	3,649	1,821	164,480	3,994
Gasoline	1,083,466	772,932	13,810	76,655	53,122
Residence fuel oil	227,810	33,395	-	109,266	69,563
Fabricated metal products	759,922	7,579	326	36,232	1,863
Motor vehicles, parts, equip.	480,535	34,943	127	61,655	25,632
Barbers Point	5,725,722	2,700,105	77,742	2,774,551	138,740
Crude petroleum	3,322,373	911,926	-	2,410,447	-
Gasoline	733,476	705,410	1,658	1,831	16,304
Distilled fuel oil	384,416	241,540	75,366	51,632	11,737
Residual fuel oil	947,661	650,568	-	297,093	-
Nawiliwili	785,212	10,548	25,538	6,927	171,417
Sugar	163,424	-	-	-	162,968
Fabricated metal products	207,057	-	-	472	-
Kailua	9	(NA)	(NA)	(NA)	(NA)
Hana	5	(NA)	(NA)	(NA)	(NA)
Kaunakakai	182,926	(NA)	(NA)	(NA)	(NA)
Kalaupapa	1,281	(NA)	(NA)	(NA)	(NA)
Port Allen	58,437	(NA)	(NA)	9,964	(NA)
Pearl Harbor	(NA)	(NA)	(NA)	(NA)	44,945
Kaumalapau	(NA)	(NA)	(NA)	(NA)	(NA)

Continued on next page.

Table 489.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1980 -- Con.

[In short tons.]

Harbor and commodity 1/	Interisland 2/		Internal receipts	Local
	Receipts	Shipments		
Hilo	544,567	166,698	322	-
Sugar	23	22	-	-
Fabricated metal products	110,261	57,377	-	-
Kawaihae	180,218	83,239	54	-
Sugar	-	-	-	-
Kahului	704,300	291,804	66	-
Sugar	766	202	-	-
Fabricated metal products	211,076	43,644	-	-
Honolulu	1,014,472	1,971,722	343	3,008
Fresh fruits, tree nuts	220,091	1,505	-	-
Fresh and frozen vegetables	57,639	11,199	-	-
Prep. fruit, veg. juice	106,046	1,189	-	-
Molasses	54,570	-	-	-
Alcoholic beverages	7	24,154	-	-
Lumber	3,322	23,995	-	-
Gasoline	8,157	157,513	-	1,277
Residence fuel oil	-	15,586	-	-
Fabricated metal products	199,207	514,715	-	-
Motor vehicles, parts, equip.	121,844	236,334	-	-
Barbers Point	8,480	26,104	-	-
Crude petroleum	-	-	-	-
Gasoline	116	8,157	-	-
Distilled fuel oil	250	3,891	-	-
Residual fuel oil	-	-	-	-
Nawiliwili	420,320	150,071	391	(NA)
Sugar	6	450	-	(NA)
Fabricated metal products	137,815	68,770	-	(NA)
Kailua	-	-	(NA)	(NA)
Hana	-	-	(NA)	(NA)
Kaunakakai	75,002	107,915	(NA)	(NA)
Kalaupapa	937	344	(NA)	(NA)
Port Allen	26,146	7,591	(NA)	(NA)
Pearl Harbor	1,880	792	(NA)	(NA)
Kaumalapau	41,154	205,716	(NA)	(NA)

NA Not available.

1/ Commodities under 150,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1980, pp. 29-35, and unpublished printouts.

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,400 farms in Hawaii as of 1982, with a total area of 2.0 million acres. The value of crop sales in 1982 was $434 million, or 133 percent higher than the total for 1972. Livestock sales amounted to $78 million, or 69 percent more than the 1972 level. Combined crop and livestock sales in 1982 ranged from $60 million in Kauai County to $176 million on the Big Island. Major crops were sugar ($231 million in sales, up 97 percent over the decade), pineapple ($99 million, or 127 percent over the 1972 total), flowers and nursery products ($31 million, or 483 percent more than in 1972), and macadamia nuts ($27 million, up 788 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from $25 million in 1972 to $104 million in 1982, or approximately 315 percent. About 650 farms sold $31 million of flowers and nursery products in 1982, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1982 included cattle ($28 million in sales), milk ($22 million), and eggs ($15 million). In 1982, Hawaii produced 37 percent of the fresh market vegetables consumed locally, 24 percent of the fresh market fruits, 30 percent of the beef and veal, 24 percent of the chickens, none of the rice, and 76 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 317,000 pounds in 1982, with a value of more than $1.5 million. Ten years earlier the corresponding figures had been only 4,300 pounds and $15,000.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $31 million worth of marijuana in 1982, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, generally conducted at five-year intervals, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaiian Sugar Planters' Association, Pineapple Growers Association of Hawaii, and Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1982-83.

Table 490.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total	4,864	3,896	3,020	4,310
Less than 10 acres	2,603	2,024	1,633	2,527
10 to 49 acres	1,594	1,281	872	1,211
50 to 179 acres	359	336	271	296
180 to 499 acres	168	140	127	146
500 to 999 acres	38	28	23	24
1,000 to 1,999 acres	22	17	24	32
2,000 or more acres	80	70	70	74
Farm acreage				
Total acreage (1,000)	2,354	2,058	2,119	1,988
Per farm (acres)	484	528	702	461
Total cropland (1,000)	370.9	379.8	351.6	333.3
Harvested cropland (1,000)	167.5	178.7	151.4	158.6
Irrigated land (1,000)	143.9	145.6	141.7	159.3
Other characteristics				
Average age of farm operators (years)	51.0	53.1	55.4	52.7
Tenant operators (percent of total)	41.1	38.1	36.6	34.5
Regular hired workers 1/	12,375	13,200	11,497	11,380
Average value of land and buildings:				
Per farm ($1,000)	98.9	156.8	340.6	413.9
Per acre (dollars)	205	297	485	897
Market value of agricultural products sold:				
Total ($1,000,000)	187.5	285.6	609.8	419.3
Per farm ($1,000)	38.5	73.3	201.9	97.3
Percent of farms over $2,500	46.5	55.6	67.4	67.6

1/ Working 150 days or more on all farms.

2/ 1978 data exclude sales of forest products.

Source: U.S. Bureau of the Census, 1974 Census of Agriculture, Vol. I, Part 11 (1977), pp. 1, 2, and 16, and 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 1, 2, 5, and 6.

Table 491.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Hawaii	Hono-lulu	Kauai	Maui
Number of farms by size					
Total	4,310	2,266	1,053	369	622
Less than 10 acres	2,527	1,213	822	188	304
10 to 49 acres	1,211	745	161	114	191
50 to 179 acres	296	155	36	41	64
180 to 499 acres	146	85	16	11	34
500 to 999 acres	24	16	2	-	6
1,000 to 1,999 acres	32	13	9	5	5
2,000 or more acres	74	39	7	10	18
Farm acreage					
Total acreage (1,000)	1,988	1,154	126	286	422
Per farm (acres)	461	509	119	776	679
Total crop land (1,000)	333.3	129.5	(D)	(D)	96.6
Harvested cropland (1,000) ...	158.6	58.7	30.5	24.9	44.5
Irrigated land (1,000)	159.3	21.9	38.4	36.8	62.2
Other characteristics					
Average age of farm operators (years)	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total)	34.5	33.9	40.3	38.5	24.4
Regular hired workers 1/	11,380	2,961	2,758	2,095	3,566
Average value of land and buildings:					
Per farm ($1,000)	413.9	405.5	300.6	498.7	586.4
Per acre (dollars)	897	796	2,519	643	864
Market value of agricultural products sold:					
Total ($1,000)	419,251	148,399	118,608	48,679	103,564
Per farm ($1,000)	97.3	65.5	112.6	131.9	166.5
Percent of farms over $2,500	67.6	68.6	71.5	59.9	61.7

D Data withheld to avoid disclosing information for individual farms.

1/ Working 150 days or more on all farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 107, 125, 126, 130, 131, 135, 136, 140, 141.

Table 492.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1972 TO 1982

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1972 ..	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973 ..	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974 ..	3,800	2,200	575,432	442,300	40,259	34,964	57,909
1975 ..	3,900	2,150	377,575	237,000	41,616	40,688	58,271
1976 ..	4,000	2,100	327,820	164,700	52,983	47,815	62,322
1977 ..	4,100	2,050	325,182	144,200	62,249	53,715	65,018
1978 ..	4,300	1,980	380,655	182,700	63,090	62,308	72,557
1979 ..	4,300	1,980	441,253	217,600	69,409	75,780	78,464
1980 ..	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981 ..	4,400	1,965	489,502	207,500	89,745	104,103	88,154
1982 ..	4,400	1,965	512,642	230,800	99,484	104,010	78,348

1/ Data for 1974 and later years based on revised farm definition.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 493.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1972 TO 1982

Geographic area and year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (unpro-cessed cane)	Pine-apples (fresh equiv.)	Other crops	Live-stock
State total:							
1972	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1981	4,400	1,965	489,502	207,500	89,745	104,103	88,154
1982	4,400	1,965	512,642	230,800	99,484	104,010	78,348
Hawaii Co.:							
1972	2,450	1,340	72,190	44,100	-	12,973	15,117
1981	2,650	1,150	163,730	76,800	-	63,912	23,018
1982	2,650	1,150	176,029	86,900	-	65,412	23,717
Maui Co.:							
1972	550	526	67,886	29,200	29,800	3,743	5,143
1981	500	420	115,290	50,500	39,915	13,270	11,605
1982	500	420	119,084	55,000	38,642	14,084	11,358
Oahu:							
1972	900	152	62,803	18,600	13,300	6,725	24,178
1981	1,000	125	153,514	34,200	49,830	21,197	48,287
1982	1,000	125	157,042	37,900	60,842	19,751	38,549
Kauai Co.:							
1972	400	282	29,618	25,400	800	1,614	1,804
1981	250	275	56,968	46,000	(3/)	5,724	5,244
1982	250	275	60,487	51,000	(3/)	4,763	4,724

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.

3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 494.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1972 TO 1982

Subject	1972	1981	1982
Acreage in crop (1,000 acres):			
Sugarcane	229.6	216.1	204.8
Pineapples (land used for pineapple)	58.1	41.0	36.0
Vegetables and melons (harvested acreage)	3.0	4.2	4.1
Fruits, excluding pineapples	3.6	5.4	5.6
Coffee	2.9	1.8	2.0
Macadamia nuts	9.3	13.8	14.7
Miscellaneous crops	3.2	8.0	11.3
Number of crop farms:			
Sugar	577	360	285
Pineapples	36	18	18
Vegetables and melons	412	583	620
Fruits (excluding pineapples)	417	657	700
Coffee	770	625	620
Macadamia nuts	326	490	520
Taro	123	123	117
Flowers and nursery products	446	680	650
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,929	8,831	8,808
Pineapples, fresh equivalent (1,000 tons)	947	636	670
Vegetables and melons (1,000 lb.)	50,903	73,330	72,740
Fruits, excluding pineapples (1,000 lb.)	38,119	83,010	70,810
Coffee, parchment (1,000 lb.)	3,640	2,210	1,050
Macadamia nuts, in shell (1,000 lb.)	13,110	33,360	36,720
Taro (1,000 lb.)	9,020	6,100	6,460
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	117,300	207,500	230,800
Pineapples (fresh equivalent)	43,900	89,745	99,484
Vegetables and melons	7,688	21,669	23,016
Fruits (excluding pineapples)	4,687	15,516	14,846
Coffee (parchment)	1,835	4,420	2,205
Macadamia nuts (in shell)	3,055	26,454	27,136
Taro	758	1,305	1,447
Field crops (not estimated separately)	1,608	5,107	4,651
Flowers and nursery products	5,244	29,482	30,559

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 495.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1982

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	83.2	47.5	29.2	44.9
Pineapples (land used for pineapple)	-	24.5	11.5	(1/)
Vegetables and melons (harvested acreage)	1.5	1.4	1.1	0.1
Fruits, excluding pineapples	3.9	0.2	0.8	0.7
Coffee	2.0	-	-	-
Macadamia nuts	13.5	(D)	(D)	(D)
Miscellaneous crops	1.0	8.9	0.7	0.7
Number of crop farms:				
Sugar	274	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	241	78	249	52
Fruits (excluding pineapples)	424	37	157	82
Coffee	620	-	-	-
Macadamia nuts	515	2	1	2
Taro	35	29	4	49
Flowers and nursery products	310	80	235	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,780	1,853	1,306	1,869
Pineapples, fresh equivalent (1,000 tons)	-	467	203	(2/)
Vegetables and melons (1,000 lb.)	34,510	25,230	11,380	1,620
Fruits, excluding pineapples (1,000 lb.)	55,010	2,260	5,380	8,160
Coffee, parchment (1,000 lb.)	1,050	-	-	-
Macadamia nuts, in shell (1,000 lb.)	36,600	(D)	(D)	(D)
Taro (1,000 lb.)	880	(D)	(D)	4,360
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	86,900	55,000	37,900	51,000
Pineapples (fresh equivalent)	-	38,642	60,842	(3/)
Vegetables and melons	10,785	6,355	5,275	601
Fruits (excluding pineapples)	11,472	496	1,427	1,451
Coffee (parchment)	2,205	-	-	-
Macadamia nuts (in shell)	27,047	(D)	(D)	(D)
Taro	197	(D)	(D)	972
Field crops (not estimated separately)	12	3,029	226	1,384
Flowers and nursery products	13,559	3,925	12,776	299

D Withheld to avoid disclosure of individual operations.
NA Not available.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1982.

Table 496.-- VEGETABLES, FRUITS, NUTS, COFFEE, AND TARO: 1982

Crop 1/	Acreage harvested 2/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables:					
Snap beans	130	7.7	995	80.0	796
Chinese Cabbage	330	23.7	7,820	14.4	1,126
Head Cabbage	540	25.5	13,800	14.1	1,946
Celery	75	42.0	3,150	19.4	611
Cucumbers	225	19.3	4,350	31.1	1,353
Ginger Root	100	36.3	3,630	92.3	3,350
Lettuce (head, semi-head)	650	14.5	9,400	26.2	2,463
Dry Onions	105	12.9	1,350	66.2	894
Green Onions	115	7.0	800	84.3	674
Watercress	25	...	850	73.2	622
Tomatoes	260	30.0	7,800	34.7	2,707
Fruits:					
Bananas	585	...	6,730	9.9	664
Guavas	720	8.0	5,750	28.6	1,645
Papayas	2,170	24.3	52,750	21.8	11,484
Macadamia nuts (1982-1983)	10,200	3.6	36,720	73.9	27,136
Coffee (1982-1983)	1,900	0.6	1,050	210.0	2,205
Taro	340	...	6,460	22.4	1,447

1/ Data shown for crops with sales in excess of $600,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1982 pp. 28-65.

Table 497.-- LIVESTOCK INVENTORY: 1972, 1981, AND 1982

[In thousands.]

Type of livestock	1972	1981	1982
All cattle and calves 1/	245	228	230
Milk cows 1/	13	13	12
Hogs and pigs 2/	58	55	49
Chickens (excluding broilers) 2/ ..	1,330	1,242	1,148
Bee colonies	4	7	8

1/ As of following January 1.
2/ As of December 1.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 498.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1982-1983

[In thousands.]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves 1/	133.3	42.7	35.7	18.3
Milk cows 1/	1.5	1.1	9.3	0.5
Hogs and pigs 2/	3.8	8.8	32.1	4.3
Chickens (excluding broilers) 2/ .	(D)	(D)	971.0	(D)

D Withheld to avoid disclosure of individual operations.
1/ As of January 1, 1983.
2/ As of December 1, 1982.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1982, pp. 71, 80, and 85.

Table 499.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1972 TO 1982

Subject	1972	1981	1982
Number of livestock operations, Dec. 31:			
Cattle 1/	970	750	750
Hogs	540	650	650
Milk	100	70	70
Eggs	90	55	55
Broilers	16	10	10
Honey	20	28	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 2/	32,183	28,666	29,048
Pork (dressed weight; 1,000 lb.)	8,357	8,708	8,557
Milk (million lb.)	134.6	147.9	106.4
Eggs (million)	204	221.3	202.2
Broilers and chickens (1,000 lb.) 3/	6,359	9,046	8,571
Honey (1,000 lb.)	300	875	840
Value of livestock sales ($1,000):			
Cattle 4/	16,557	28,405	27,619
Hogs 4/	4,524	8,382	8,465
Milk	14,494	30,320	21,908
Eggs	7,990	15,159	14,542
Broilers and chickens	2,540	5,307	5,240
Other	137	581	574

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 500.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1982

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	340	200	70	140
Hogs	75	100	360	115
Milk	24	17	24	5
Eggs	24	6	21	4
Broilers	-	-	8	2
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	19,880	6,224	952	1,992
Pork (dressed weight; 1,000 lb.)	716	2,016	5,189	636
Milk (million lb.)	(D)	(D)	75.6	(D)
Eggs (million)	(D)	(D)	174.1	(D)
Broilers and chickens (1,000 lb.) 3/	(D)	(D)	8,214	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	18,907	6,043	756	1,913
Hogs 4/	758	2,110	4,914	683
Milk	(D)	(D)	15,687	(D)
Eggs	(D)	(D)	12,160	(D)
Broilers and chickens	(D)	(D)	4,989	(D)
Other	404	105	43	22

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1982.

Table 501.-- FLOWERS AND NURSERY PRODUCTS, 1980 TO 1982, AND BY ISLANDS, 1982

Island and year	Number of farms	Area					Wholesale value ($1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1980	640	1,477	1,753	19,567	130	858	27,688
1981	680	1,610	2,295	23,068	133	895	29,482
1982	650	1,628	2,399	25,126	119	877	30,559
Islands, 1982:							
Hawaii ...	310	912	1,270	19,425	104	333	13,559
Kauai	25	46	20	182	3	38	299
Maui	80	262	191	648	-	243	3,925
Oahu	235	408	918	4,871	12	263	12,776

Source: Hawaii Agricultural Reporting Service, "Flower and Nursery Products Number One Diversified Industry After Record Year," Hawaii Flowers and Nursery Products, Annual Summary (July 7, 1983).

Table 502.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1982

[Shown for commodities with value of sales over $500,000.]

Kind of flower	Number of farms	Number of flowers sold		Value of sales ($1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	225	1,000 dozens	1,984	5,633
Roses	6	1,000 dozens	478	1,381
Chrysanthemums, pompon	17	1,000 bunches	439	546
Lei flowers:				
Carnations	29	Million flowers	33.7	1,206
Vanda, Miss Joaquim	31	Million flowers	79.7	1,185
Potted plants:				
Chrysanthemums	11	1,000 pots	214	681
Dendrobium orchids	91	1,000 pots	183	767
Other orchids	66	1,000 pots	312	1,415
Potted foliage	90	...	(NA)	8,820
Unfinished flower and foliage stock	42	...	(NA)	1,355

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flowers and Nursery Products Number One Diversified Industry After Record Year," Hawaii Flowers and Nursery Products, Annual Summary (July 7, 1983).

Table 503.-- MARKET SUPPLY OF SPECIFIED FOODS: 1972 TO 1982

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits					
1972	51,978	32,823	19,155	59.8	36.9
1981	82,439	61,556	20,883	77.4	25.3
1982	81,365	61,725	19,640	75.1	24.1
Fresh market melons:					
1972	9,795	7,595	2,200	11.3	22.5
1981	14,155	12,545	1,610	13.3	11.4
1982	18,263	16,038	2,225	16.8	12.2
Fresh market vegetables:					
1972	113,502	67,133	46,369	130.5	40.9
1981	175,427	105,052	70,375	164.6	40.1
1982	186,498	117,366	69,132	172.0	37.1
Beef and veal: 3/					
1972	78,534	46,351	32,183	90.3	41.0
1981	94,792	66,126	28,666	88.9	30.2
1982	97,030	67,982	29,048	89.5	29.9
Pork: 3/					
1972	28,024	19,667	8,357	32.2	29.8
1981	34,632	25,924	8,708	32.5	25.1
1982	34,976	26,419	8,557	32.3	24.5
Chickens:					
1972	23,752	17,393	6,359	27.3	26.8
1981	32,896	23,850	9,046	30.9	27.5
1982	34,928	26,357	8,571	32.2	24.5
Eggs:					
1972	18,178	1,178	17,000	20.9	93.5
1981	20,906	2,464	18,442	19.6	88.2
1982	22,250	5,400	16,850	20.5	75.7

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Carcass weight equivalent.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 504.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS FOR MAJOR ISLANDS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated 1/	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield 2/	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.

Table 505.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980

[Estimated area in thousands of acres, as measured from 1:24,000-scale quadrangle maps.]

Land use	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total land area ..	4,034.70	2,573.40	465.80	90.50	165.80	385.30	353.90
Agriculture 1/	1,442.20	960.17	216.39	16.92	86.23	77.55	84.94
Sugarcane	251.05	104.13	54.92	-	-	38.68	53.32
Pineapple	44.54	-	11.11	16.82	3.61	12.98	.02
Field crops	17.88	11.06	2.40	-	1.27	2.82	.33
Veg and melons ..	7.09	2.48	1.90	-	1.09	1.55	.07
Forage and grain	3.51	2.32	-	-	.16	.80	.23
Flowers/nursery .	3.06	2.09	.49	-	.02	.43	.03
Flowers	2.28	1.94	.17	-	-	.17	-
Foliage/nursery	.78	.15	.32	-	.02	.26	.03
Other 2/	4.22	4.17	.01	-	-	.04	-
Orchards	35.68	30.08	2.42	-	.08	1.51	1.59
Bananas	1.25	.15	.05	-	.01	.54	.50
Papayas 3/	12.05	10.73	.01	-	.02	.55	.74
Macadamia nuts ..	16.93	14.73	2.18	-	.01	.01	-
Avocados	.73	.61	.11	-	.01	-	-
Coffee	2.44	2.44	-	-	-	-	-
Guava	.80	.13	-	-	-	.32	.35
Other 4/	1.48	1.29	.07	-	.03	.09	-
Wetland crops	.67	.13	.15	-	.01	.07	.31
Aquaculture	.58	.12	.02	-	-	.35	.09
Livestock	1,091.80	814.65	145.37	.10	81.26	21.14	29.28
Feedlot	4.77	1.54	1.97	-	-	1.00	.26
Dairy 5/	4.37	1.51	1.89	-	-	.76	.21
Hogs	.25	.01	.08	-	-	.13	.03
Poultry	.15	.02	-	-	-	.11	.02
Grazing	1,086.09	813.02	142.55	.10	81.26	20.14	29.02
Other 6/	.94	.09	.85	-	-	-	-
Urban 7/	163.61	36.22	18.91	4.61	4.11	87.43	12.33
Built-up	107.55	15.90	9.64	.33	1.29	71.60	8.79
Vacant	56.06	20.32	9.27	4.28	2.82	15.83	3.54
In ag use	10.06	2.01	1.56	.31	.43	4.48	1.27
Balance 8/	2,428.89	1,577.01	230.50	68.97	75.46	220.32	256.63

Footnotes and source on next page.

Table 505.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980 -- Con.

1/ These data differ somewhat from the official statistics compiled from surveys of farmers and ranchers and published in Statistics of Hawaiian Agriculture (annual), cited elsewhere in this section.
2/ Unidentified field crops; also includes flowers and nursery.
3/ Includes areas used for rotation and replanting.
4/ Includes unidentified orchards.
5/ Includes dairy grazing areas.
6/ Unidentified livestock, also including grazing.
7/ Includes Rural District lands.
8/ Includes Conservation District lands.
Source: Total area from State Land Use Commission data in The State of Hawaii Data Book 1981, table 138. Agricultural and urban land use estimated by the Hawaii State Department of Agriculture from U.S. Geological Survey orthophoto quad sheets, 1977-1978, as field checked by the U.S. Soil Conservation Service, Hawaii, to December 1980. Non-agricultural and non-urban balance calculated as residual.

Table 506.-- FERTILIZER CONSUMPTION BY TYPE: 1973 TO 1982

[In tons. For years ended June 30.]

Year	Total	Mixtures 1/	Direct application materials	
			Primary nutrient 2/	Secondary and micro-nutrient
1973	171,199	105,722	62,983	2,494
1974	165,720	104,413	58,155	3,152
1975	180,704	106,713	70,984	3,007
1976	176,735	114,116	56,952	5,667
1977	191,022	118,821	65,718	6,483
1978	193,745	133,792	57,705	2,248
1979	181,105	119,866	58,783	2,456
1980	169,409	108,590	58,527	2,291
1981	150,137	102,546	46,863	728
1982	156,439	100,797	54,627	1,015

1/ Fertilizers having various combinations of primary nutrients.
2/ The primary nutrients are nitrogen, phosphate, and potash.
Source: Hawaii Agricultural Reporting Service, news release, "Hawaii Fertilizer Use" (February 18, 1983).

Table 507.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979 TO 1982

Operation and island	1979	1980	1981	1982
All prawn farms	19	24	21	22
Type of operation:				
Full-time	7	8	8	8
Part-time	12	16	13	14
Island:				
Hawaii	-	4	4	4
Molokai	1	1	1	1
Oahu	17	16	13	13
Kauai	1	3	3	4

Source follows next table.

Table 508.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1972 TO 1982

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1972	1.5	4.3	15.0	3.50
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75
1981	260	240.0	1,031.0	4.30
1982	306	316.6	1,553.0	4.90

1/ As of December 31.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Table 509.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE: 1976 TO 1982

Subject and year	All types	Fresh-water prawns	Hawaiian fish-ponds	Post-larvae 1/	Other species 2/
Acreage:					
1976	235	26	192	17	
1977	246	33	192	31	
1978	320	107	192	31	
1979	493	275	192	1	25
1980	575	310	205	2	58
1981	547	260	199	2	86
1982	643	306	242	2	93
Production (1,000 lbs.): 3/					
1976	94.0	43.3	19.7	...	31.0
1977	122.6	54.9	20.1	...	47.6
1978	178.5	110.2	23.3	...	45.0
1979	246.4	205.0	20.0	...	16.4
1980	320.0	300.0	20.0	...	31.0
1981	338.5	240.0	23.1	...	75.4
1982	551.2	316.6	33.8	...	200.8
Value ($1,000):					
1976	210.0	151.6	18.5	39.9	
1977	280.6	206.0	24.7	49.9	
1978	524.7	420.0	32.7	72.0	
1979 4/	1,531.3	787.3	22.0	500.0	222.0
1980	1,655.0	1,125.0	20.0	450.0	60.0
1981	1,868.5	1,031.0	23.0	610.0	204.5
1982	2,624.9	1,553.0	74.8	162.0	835.1

1/ Juvenile freshwater prawns and marine shrimp.

2/ Oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, and trout.

3/ Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants. Post-larvae individuals produced in 1982 numbered 14 million.

4/ Value of post-larvae estimated.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, information submitted July 16, 1982 and September 30, 1983.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. About 46,000 acres had been planted in eucalyptus and other species of trees by mid-1982. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. More than 250 forest and brushland fires burned 6,900 acres in fiscal 1982.

The commercial fish catch in fiscal year 1981 amounted to 9.2 million pounds and had a value of $11 million. Ahi (Yellowfin) accounted for about 30 percent of the total value. Other important species are aku (Skipjack), mahimahi, opakapaka, ono, akule, opelu and Pacific Blue Marlin. Commercial fishermen numbered 2,525; they operated some 1,300 fishing vessels, serving about 126 fishery wholesaling and processing establishments.

The value of mineral production reached $44 million in 1982, most of it in cement ($16 million) and stone ($24 million). The 1982 total was well below the all-time high reached in 1979.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1982-83, Sections 25, 26 and 27.

Table 510.-- FOREST ACREAGE, BY ISLANDS: 1970-1982

Island	Forest and water reserve, 1982 1/ (acres)	Forest land, 1970 (acres)			Planted forest, June 30, 1982 (acres)	
		Total	Commercial 2/	Noncommercial 3/	Planted in preceding year	Total standing
State total .	1,186,462	1,986,400	947,800	1,038,600	234	46,220
Hawaii	697,361	1,152,500	569,400	583,100	105	17,806
Maui	155,247	239,800	67,500	172,300	70	11,516
Kahoolawe	-	15,800	-	15,800	-	-
Lanai	6,150	43,900	4,500	39,400	-	512
Molokai	46,445	78,100	34,000	44,100	-	3,205
Oahu	119,319	205,300	126,500	78,800	-	7,036
Kauai	161,970	219,900	145,900	74,000	59	6,145
Niihau	-	31,100	-	31,100	-	-
Other islands	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.
2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.
3/ Unproductive or productive-reserved.
Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 511.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres)	948
Federally owned or managed	12
State or county	442
Private	494
Sawtimber net volume (million board feet)	1,047
Softwood only	17
Growing stock, net volume (million cubic feet)	202
Softwood only	4

Source: U. S. Forest Service data cited in Statistical Abstract of the United States: 1982-83, p. 695.

Table 512.-- FOREST AND BRUSHLAND FIRES: 1981 AND 1982

[Years ended June 30.]

County	Number of fires		Acres burned	
	1981	1982	1981	1982
State total	508	255	15,152	6,919
Hawaii	246	104	3,823	2,155
Maui	120	94	9,284	4,461
Honolulu	117	46	1,924	260
Kauai	25	11	122	43

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 513.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1	2,750	209	574,833
Logs for craftwood	Cords 2/ ..	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/ ..	4,191	47	194,563
Fuelwood for charcoal	Cords 2/ ..	800	34	26,820
Fuel from mill residue ...	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/ ..	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.

2/ One cord equals 128 cubic feet

3/ Bone dry ton, equal to 2,000 lbs. of wood at 0 percent moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 514.-- FISHERY OPERATING UNITS AND LANDINGS: 1972 TO 1982

Year	Fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1972 ...	1,732	101	839	123	14,443	5,743
1973 ...	2,091	104	1,097	125	14,035	6,115
1974 5/.	1,992	97	1,066	123	10,990	6,028
1975 ...	2,197	109	1,278	132	9,209	6,313
1976 ...	2,367	101	1,336	135	14,761	8,879
1977 ...	2,574	101	(NA)	126	13,288	10,180
1978 ...	2,409	(NA)	1,100	(NA)	12,787	12,100
1979 ...	2,447	113	1,028	(NA)	13,664	10,659
1980 ...	2,497	134	1,055	(NA)	11,435	11,870
1981 ...	2,572	147	1,119	(NA)	13,396	18,338
1982 ...	2,480	(NA)	1,175	(NA)	14,245	14,426

NA Not available.

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons.

3/ Fishery wholesaling and processing establishments.

4/ Data may differ from corresponding totals reported by the State Fish and Game Division, which, unlike the NMFS series shown here, include unsold fish.

5/ Methods of collecting data on operating units were changed in 1974.

Source: U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States (annual, 1971-1975), and information provided August 4, 1981, June 30, 1982, and September 15, 1983.

Table 515.-- COMMERCIAL FISHING: 1962 TO 1982

[Years ended June 30.]

Year	Number of commercial fishers	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979 2/ .	2,447	12,310,524	11,890,241	12,673,328
1980 2/ .	2,525	10,418,964	9,946,065	10,497,456
1981 2/ .	2,577	10,890,468	10,465,731	11,828,575
1982 2/ .	2,525	9,178,789	8,824,348	10,754,276

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests.

2/ Incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 516.-- COMMERCIAL FISH CATCH, BY SPECIES: 1982

[Year ended June 30, 1982.]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	9,178,789	8,824,348	10,754,276
Sea catch, all species 2/	9,161,848	8,807,639	10,725,960
Aku (Skipjack)	3,513,560	3,484,216	2,863,710
Ahi (Yellowfin)	2,536,512	2,452,043	3,248,131
Pacific Blue Marlin	476,161	416,860	244,518
Akule	358,941	326,809	425,495
Opelu	262,064	256,590	356,856
Ono	256,895	236,303	508,565
Mahimahi	225,179	208,763	558,201
Ahipalaha (Albacore)	192,332	191,862	152,512
Opakapaka	184,272	176,785	528,572
Uku	92,854	89,478	211,499
Ulua	87,731	82,010	124,091
Onaga	66,063	63,708	221,107
Ahi (Bigeye)	46,695	45,467	131,648
Lobster	20,659	20,253	120,608
Pond catch, all species	16,941	16,709	28,316

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 517.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1982

[Year ended June 30.]

Island	Pounds caught	Pounds sold	Value (dollars)
State total	9,178,789	8,824,348	10,754,276
Hawaii	3,223,524	3,138,057	4,146,696
Maui	725,285	679,010	797,657
Lanai	15,853	15,090	18,030
Molokai	51,366	40,158	57,564
Oahu	4,681,480	4,547,769	5,149,433
Kauai	481,281	404,264	584,896

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year — July, 1981 through June, 1982.

Table 518.-- FISH SURVEYS AT SPECIFIED SITES: 1981-1982

[Biomass in pounds per acre.]

Location	Date	Species	Individuals	Biomass
Hanauma Bay, Oahu:				
Inshore stations	Jan. 14, 1982	62	1,523	3,756
Offshore stations	June 23, 1982	48	707	188
Waikiki-Diamond Head area, Oahu	1981-1982	122	(NA)	140
Waianae artificial reef, Oahu:				
Car-body/concrete pipes	June 30, 1982	41	278	45
"Doughnut"	June 30, 1982	46	386	280
Maunalua Bay, Oahu	June 24, 1982	72	1,486	381
Honolua-Mokuleia Bay, Maui	June 16, 1982	70	1,593	260
Ahihi-Kinau, Maui	Nov. 20, 1981	23	221	562
Olowalu, Maui	Feb. 26, 1982	39	309	225
SE of Hekili Point, Maui	Dec. 2, 1981	15	164	409
Maalaea Harbor, Maui	Dec. 15, 1981	22	154	60
Puu Olae, Maui	Feb. 19, 1983	34	274	172
Molokini Shoals, Maui	Mar. 18, 1982	87	4,794	461
Manele-Hulopoe, Lanai	Mar. 17, 1982	96	4,781	371
Kealakekua Bay, Hawaii	Mar. 29, 1982	104	7,978	429
Lapakahi, Hawaii	Mar. 30, 1982	93	6,788	464
Honaunau Bay, Hawaii	Mar. 30, 1982	70	3,119	312
Waialea Bay, Hawaii	Apr. 1, 1982	71	2,007	280

NA Not available.
Source follows next table.

Table 519.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY AND THE WAIKIKI-DIAMOND HEAD AREA: 1981-1982

[Five leading species in each area, based on both numbers per acre and pounds per acre.]

Location and species	Number per acre		Pounds per acre	
	Rank	Number	Rank	Pounds
Hanauma Bay: 1/				
Manini	1	973	4	203
Maiko (Acanthuris nigrofuscus)	2	276	9	86
Nenue	3	262	2	521
Hinalea lau-wili	4	254	23	26
'Ama'ama	5	208	3	340
Pualu (Acanthurus xanthopterus)	7	198	1	1,059
Pualu (Acanthurus mata)	18	57	5	181
Waikiki-Diamond Head: 2/				
Manini	1	168	1	35
Hinalea lau-wili	2	156	4	12
Omaka	3	104	8	4
Maiko (Acanthurus nigrofuscus)	4	104	3	22
Yellow-eye damselfish	5	73	7	4
Kala	6	33	2	24
Weke	8	18	5	6

1/ Inshore stations 3-A and 3-B (eastern and western portions inshore of surf zone) of Hanauma Bay Marine Life Conservation District, Oahu, surveyed January 14, 1982.

2/ For four stations within the Waikiki-Diamond Head Shoreline Fisheries Management Area, Oahu, surveyed monthly between July 1981 and June 1982.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Job Progress Report, Survey of Fish and Habitat, July 1, 1981 to June 30, 1982.

Table 520.-- MINERAL INDUSTRIES: 1958 TO 1977

Subject	1958	1963	1967	1972	1977
Including mines at manufactures					
Number of establishments	24	49	18	21	10
With 20 employees or more	8	4	5	5	3
Value added in mining (million dollars)	4.9	5.7	(D)	(D)	(D)
Excluding mines at manufactures					
Number of establishments 1/.......	20	44	12	15	7
With 20 employees or more	8	4	3	5	2
All employees: 2/					
Number (1,000)	.4	.3	.2	.3	.1
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9
Production, development, and exploration workers:					
Number 2/ (1,000)	.4	.2	.2	.2	.1
Hours (millions)	.7	.6	.4	.4	.2
Wages 2/ (million dollars)	1.4	1.5	1.3	1.8	1.5
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9
Value of shipments and receipts 3/ (million dollars)	5.8	6.5	5.5	11.0	9.7
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3

Footnotes and source on next page.

Table 520.-- MINERAL INDUSTRIES : 1958 TO 1977 - Con.

(D) Withheld to avoid disclosing operations of individual companies.

1/ In 1977, 1972, and 1967, data for companies without paid employees were excluded from the census of mineral industries.

2/ For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for hours worked. No data were obtained on other employees at such operations; hence, the same employment and payroll figures are included for all employees as for production, development, and exploration workers.

3/ For crushed and broken stone, sand and gravel, clay, and gypsum, mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For all years, represents gross value of shipments and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation.

Source: U.S. Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series, Pacific Division, MIC77-A-9 (March 1981), table 1.

Table 521.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1972 TO 1982

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980	371	6,341	59,676	24,682	30,645	4,349
1981 1/ ..	312	6,036	58,727	23,831	31,407	3,489
1982 2/ ..	205	4,100	43,995	15,900	24,204	3,891

1/ Revised from Data Book 1982, table 470.

2/ Preliminary.

Source: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* (annual); *Minerals in the Economy of Hawaii* (annual, 1978 and 1979); and "The Mineral Industry of Hawaii," *Mineral Industry Surveys* (annual).

Table 522.-- NONFUEL MINERAL PRODUCTION: 1981 AND 1982

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1981 1/	1982 2/	1981 1/	1982 2/
Total	(X)	(X)	58,727	43,995
Cement:				
Portland	302	200	23,024	15,500
Masonry	10	5	807	400
Sand and gravel	1,100	940	2,900	3,000
Stone:				
Crushed	6,036	4,100	31,403	24,200
Dimension	(Z)	(Z)	4	4
Other nonmetals	(X)	(X)	589	891

X Not applicable.
Z Less than 500 short tons.
1/ Revised from Data Book 1982, table 471.
2/ Preliminary.
Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1982," *Mineral Industry Surveys* (January 17, 1983).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing and office buildings, sales, and residential financing.

There were 16,816 building permits issued in 1982, with an estimated value of $704 million. The total included $328 million for private residential construction and $325 million for private nonresidential structures. The value of government construction contracts awarded was $393 million. Construction put in place, as indicated by the contracting tax base, totaled $696 million in 1972 and $1.3 billion in 1982. The value of land transfers in fiscal 1983 was $3.0 billion. Mortgage loans outstanding at the end of 1981 amounted to $7.5 billion. The July 1983 construction cost index for Honolulu (1967=100) was 333.4 for single-family residences and 351.6 for high-rise buildings.

The number of housing units in the State increased from 251,000 in 1973 to 353,000 in 1983. Owner occupied units numbered 106,000 in 1973 and 144,000 in 1983; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Military and public housing accounted for 26,000 units as of 1983. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1983, according to the Federal Home Loan Bank of Seattle, was only 1.3 percent. The average selling price of single family homes on Oahu during 1982, based on Multiple Listing Service data, was $184,000; for condominium units it was $107,000. The median contract monthly rent for the State rose from $120 in 1970 to $271 in 1980, and the median value of owner occupied single-family units increased from $35,100 to $118,100.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, postal vacancy surveys issued by the Federal Home Loan Bank of Seattle, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly *Construction in Hawaii*, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult *Historical Statistics of Hawaii*, Section 15. Mainland statistics appear in Section 28 of *Statistical Abstract of the United States: 1982-83*.

Table 523.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1972 TO 1982

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1972	25,342	17,706	3,982	862	2,792
1973	30,581	22,767	4,260	1,132	2,422
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
1982	16,816	11,743	2,581	1,056	1,436
ESTIMATED VALUE ($1,000)					
1972	508,261	364,835	69,016	25,741	48,669
1973	649,121	480,639	56,376	31,578	80,528
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713
1982	703,794	493,139	75,715	44,236	90,704

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 524.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1972 TO 1982

[In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,829	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,674	29,243	13,346	37,086
1977	311,333	192,334	39,505	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
1979	588,685	288,863	91,942	100,024	107,857
1980	736,624	338,259	108,360	74,795	215,209
1981 1/	460,026	226,148	73,708	41,368	118,802
1982	327,577	202,722	61,056	28,027	35,771
NONRESIDENTIAL					
1972	131,274	98,840	16,614	3,256	12,563
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829
1979	290,249	217,219	20,547	13,896	38,587
1980	480,594	346,217	37,598	58,299	38,480
1981 1/	345,751	228,049	62,747	25,943	29,011
1982	325,495	240,200	14,153	16,209	54,933

1/ Revised from *Data Book 1982*, table 473.

Source: First Hawaiian Bank, *Hawaii's Economic Indicators. Sources, Definitions, and Trends* (March 1980), pp. 28-30 and 35-37, and *Hawaii in 1982* (March-April 1983), and records.

Table 525.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY: 1972 TO 1982

[In thousands of dollars. By date of publication.]

Calendar year	Total	Federal agencies	State agencies	City and County of Honolulu	Other counties
1972 ...	214,612	71,254	117,395	17,101	8,862
1973 ...	261,723	118,052	97,783	36,294	9,594
1974 ...	299,361	102,193	148,731	25,002	23,435
1975 ...	450,250	94,546	227,781	102,007	25,916
1976 ...	382,333	135,817	146,819	58,680	41,017
1977 ...	286,452	85,415	135,360	43,772	21,905
1978 ...	290,004	94,648	155,463	24,999	14,894
1979 ...	388,694	105,683	221,018	45,946	16,048
1980 ...	230,619	66,510	119,994	25,632	18,483
1981 ...	427,534	176,136	180,542	59,056	11,799
1982 ...	392,767	139,588	181,989	32,520	38,670

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 526.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY LOCATION OF CONSTRUCTION: 1972 TO 1982

[In thousands of dollars. By date of publication.]

Calendar year	Total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1972 ...	214,612	179,159	19,684	7,927	7,842
1973 ...	261,723	228,427	19,616	7,709	5,971
1974 ...	299,361	243,465	34,842	15,095	5,959
1975 ...	450,250	354,020	41,576	31,580	23,075
1976 ...	382,333	294,072	38,656	14,310	35,296
1977 ...	286,452	221,126	26,884	11,579	26,863
1978 ...	290,004	224,074	23,384	10,140	32,406
1979 ...	388,694	313,105	33,411	12,954	29,224
1980 ...	230,619	168,131	33,766	11,079	17,642
1981 ...	427,534	349,034	48,202	17,520	12,778
1982 ...	392,767	298,638	23,009	25,431	45,688

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 527.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1982

Category and year	State total	City and County of Hono-lulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1970	5,399	3,809	1,590	796	320	474
1971	5,802	3,771	2,031	1,014	348	669
1972	5,852	3,353	2,499	1,152	515	832
1973	5,420	3,008	2,412	1,143	424	845
1974	3,455	1,626	1,829	839	401	589
1975	3,042	1,078	1,964	826	343	795
1976	3,386	1,326	2,060	821	366	873
1977	4,790	2,210	2,580	1,070	429	1,081
1978	5,006	2,075	2,931	1,382	555	994
1979	5,997	3,046	2,951	1,429	512	1,010
1980	4,072	1,650	2,422	1,192	427	803
1981	2,551	768	1,783	1,032	353	398
1982	2,451	891	1,560	800	230	530
New duplex units:						
1970	228	212	16	6	6	4
1971	100	70	30	28	-	2
1972	124	112	12	4	6	2
1973	326	312	14	6	4	4
1974	484	464	20	4	14	2
1975	242	112	130	12	16	102
1976	110	56	54	-	46	8
1977	100	84	16	4	2	10
1978	278	260	18	-	12	6
1979	208	134	74	16	44	14
1980	84	46	38	12	24	2
1981	164	42	122	18	38	66
1982	32	-	-	-	-	-

Continued on next page.

Table 527.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1982 -- Con.

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New apartments:						
1970	5,122	3,957	1,165	389	67	709
1971	5,623	4,017	1,606	830	29	747
1972	9,023	6,952	2,071	850	365	856
1973	11,864	9,745	2,119	493	339	1,287
1974	15,203	11,070	4,133	990	501	2,642
1975	7,031	4,240	2,791	499	186	2,106
1976	3,492	3,142	350	129	-	221
1977	3,129	2,389	740	129	83	528
1978	4,327	2,111	2,216	282	610	1,324
1979	4,800	1,854	2,946	737	1,125	1,084
1980	5,163	1,854	3,309	727	769	1,813
1981	3,135	1,873	1,262	267	60	935
1982	3,038	2,553	485	245	118	122
Units demolished:						
1970	930	642	288	*100	112	*76
1971	857	596	261	80	87	94
1972	956	669	287	70	82	135
1973	1,156	874	282	102	60	120
1974	983	703	280	162	73	45
1975	913	632	281	135	11	135
1976	857	613	244	92	6	146
1977	906	696	210	96	15	99
1978	696	558	138	81	5	52
1979	611	460	151	60	15	76
1980	766	665	101	63	6	32
1981	686	521	165	21	70	74
1982 1/............	589	443	146	34	*22	90

* Estimated by DPED.

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai).

Source: Compiled from County building departments by the Hawaii State Department of Planning and Economic Development.

Table 528.-- ESTIMATED VALUE PER UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1977 TO 1982

[In dollars. Excludes building permits for additions, alterations and repair.]

Year issued	Single-family	Two-family	Multi-family	Hotel 1/
1977	36,668	29,366	34,900	(2/)
1978	51,329	35,877	40,209	(2/)
1979	54,373	43,041	43,399	(2/)
1980	52,755	72,768	65,660	54,301
1981	72,044	69,071	70,710	(2/)
1982	59,719	85,511	44,727	(2/)

1/ Estimated value per room.
2/ No permit issued.
Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual).

Table 529.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1979 TO 1982

Calendar year	Projects	Units	
		Residential	Business or commercial
1979	150	11,805	82
1980	156	9,953	594
1981	98	3,172	1,213
1982	48	1,500	472

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 530.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1972 TO 1982

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432
1981	9,704	67	2,745	4,825	2,067	90,136
1982	7,795	201	1,298	3,544	2,752	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 531.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1982

Calendar year	Projects	Housing units
1963-69	20	768
1970-74 1/	33	1,680
1975-79 1/	83	4,041
1980	71	3,397
1981	27	661
1982	12	227
Total, 1963-82	246	10,774

1/ For annual data, see the Data Book 1981, table 471.

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and 1982 from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 532.-- HONOLULU CONSTRUCTION COST INDEXES: 1973 TO 1983

[1967=100. Data are annual averages unless otherwise specified.]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1973	154.7	150.0	160.9	144.9	129.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.4	218.7	274.5	241.3	204.7	273.1
1979	266.2	248.3	288.8	264.3	237.6	287.5
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981	291.2	254.2	337.9	308.2	274.6	337.4
1982	304.7	250.6	372.9	330.3	281.4	372.7
1983: July 2/	333.4	283.1	396.8	351.6	297.5	398.6

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records.

Table 533.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972 AND 1977

Industry	SIC code	Number of establishments		Proprietors and working partners	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	2,318	3,170	1,327	2,020
Construction industries	15-17	2,183	3,029	1,265	1,848
General building contractors and operative builders ...	15	703	843	343	459
Heavy construction general contractors	16	92	114	39	50
Special trade contractors ..	17	1,387	2,072	882	1,340
Subdividers and developers, n.e.c.	6552	135	145	62	172

Industry	SIC code	All employees 1/		All business receipts ($1,000)	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	25,012	20,792	1,109,328	1,508,865
Construction industries	15-17	24,460	20,187	1,046,508	(D)
General building contractors and operative builders ...	15	9,900	7,944	563,928	779,765
Heavy construction general contractors	16	3,147	2,319	124,794	(D)
Special trade contractors ..	17	11,413	9,924	357,785	469,024
Subdividers and developers, n.e.c.	6552	552	607	62,819	(D)

D Withheld to avoid disclosing data for individual companies.

n.e.c. Not elsewhere classified.

1/ Average of totals for mid-March, mid-May, mid-August, and mid-November.

Source: U.S. Bureau of the Census, 1977 Census of Construction Industries, Geographic Area Series, Pacific States, CC77-A-9 (August 1980), p. 51-4.

Table 534.-- GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1972 TO 1982

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Contracting	Rentals		
		Total	Hotel rentals	All other rentals 2/
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655
1977 3/	983,618	1,274,918	482,990	791,929
1978 3/	1,060,898	1,392,947	535,874	857,073
1979	1,325,460	1,699,947	672,098	1,027,848
1980	1,569,658	1,820,715	708,620	1,112,095
1981	1,613,764	2,040,505	770,705	1,269,800
1982	1,294,871	2,265,287	844,926	1,420,361

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 535.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1983

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ...	216,774	68,422	20,802	106,821	14,439	6,290
1971 ...	228,749	72,086	21,732	113,531	15,089	6,311
1972 ...	238,770	75,939	24,565	117,111	14,959	6,196
1973 ...	250,742	78,878	26,776	123,934	15,071	6,083
1974 ...	266,828	82,494	30,333	131,368	16,373	6,260
1975 ...	284,120	85,264	30,543	145,276	16,386	6,651
1976 ...	298,339	88,284	33,730	152,578	17,225	6,522
1977 ...	306,989	89,980	34,549	158,223	17,493	6,744
1978 ...	315,513	92,989	35,869	161,728	18,653	6,274
1979 ...	324,261	96,273	36,540	165,045	19,022	7,381
1980 ...	334,235	100,478	36,986	170,963	19,437	6,371
1981 ...	342,873	104,677	37,413	174,753	19,427	6,603
1982 ...	348,980	106,147	37,372	179,579	19,392	6,490
1983 ...	353,393	108,761	35,586	183,228	19,304	6,514

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1983 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1983 (Statistical Report 162, August 15, 1983), table 3.

Table 536.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1983

[As of April 1.]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 ..	353,393	259,574	93,819	38,702	16,916	38,201

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1983 (Statistical Report 162, August 15, 1983), table 4.

Table 537.-- TENURE AND CONTROL OF HOUSING UNITS, BY COUNTIES: 1983

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	353,393	108,761	35,586	183,228	19,304	6,514
City and County of Honolulu	259,574	74,412	33,732	127,360	19,156	4,914
County of Hawaii	38,702	16,852	1,038	19,815	56	941
County of Kauai	16,916	6,112	137	10,270	64	333
County of Maui	38,201	11,385	679	25,783	28	326

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1983 (Statistical Report 162, August 15, 1983), table 2.

Table 538.-- DETAILED HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total 1/	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui
Year-round housing units					
Percent with--					
Structure built 1970 to March 1980	38.9	35.2	47.2	42.6	56.6
Structure built 1939 or earlier ...	10.5	8.4	20.2	17.6	13.3
1 unit in structure	51.7	47.1	75.4	73.3	52.3
5 or more units in structure	38.1	41.5	18.3	18.9	41.3
Public sewer	81.5	92.7	30.5	30.0	71.7
Central heating system	8.0	9.7	3.2	1.6	2.9
Air conditioning	18.1	21.1	5.1	4.0	15.6
1 or more complete bathrooms	97.1	98.1	91.8	95.6	96.0
3 or more bedrooms	46.9	45.8	57.5	54.5	40.5
In structures with 4 or more stories	18.5	21.9	3.1	1.3	15.9
Percent with pass. elevator	91.5	91.6	65.9	79.6	96.5
Occupied housing units					
Percent with--					
Householder moved into unit 1979 to March 1980	26.8	27.4	26.3	21.4	24.0
1 or more vehicles available	89.6	88.9	91.6	93.4	92.8
Median selected monthly owner costs (dollars): 2/					
With a mortgage	463	494	371	411	383
Not mortgaged	110	119	92	106	99
Median gross rent (dollars) 3/	311	315	266	238	361

1/ Includes Kalawao County, not shown separately.
2/ For specified owner occupied units.
3/ For specified renter occupied units.
Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii; HC80-1-B13 (May 1983), tables 54, 60, and 93.

Table 539.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total 1/	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent) ..	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occ. units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source no next page.

Table 539.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Includes Kalawao County (121 housing units), not shown separately in this table.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 540.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTIFAMILY DEVELOPMENTS, FOR OAHU: 1977 TO 1982

Year	Single-family developments				Multifamily developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1977 ..	1,261	6,167	1,164	79,266	1,125	553	56,543
1978 ..	1,442	5,932	1,566	102,479	1,133	438	68,149
1979 ..	1,493	4,753	1,696	114,731	1,153	346	87,480
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669

1/ Four stories or under.

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 9.

Table 541.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1977 TO 1982

Year	Units owned by HHA 1/		Population in units 1/	Total assets 1/ ($1,000)
	Total	Occupied		
1977 3/ ...	5,555	5,524	18,214	80,843
1978	5,404	5,349	16,799	83,098
1979	5,461	5,391	16,819	103,787
1980	5,466	5,459	17,522	327,960 4/
1981	5,632	5,593	17,935	337,920 4/
1982	5,795	5,754	17,876	405,650 5/

Year	Operating revenues of HHA 2/ ($1,000)		Operating revenues per unit per mo. 2/ (dollars)	Rent charged per unit per month (dollars) 2/
	Gross	Net		
1977 3/ ...	8,696	-767	103.36	97.05
1978	7,619	387	129.06	108.42
1979	8,488	788	131.69	121.98
1980 6/ ...	8,633	598	163.91	125.70
1981 6/ ...	10,635	920	193.58	141.27
1982 6/ ...	12,142	1,854	219.29	145.34

1/ As of June 30.

2/ Year ended June 30.

3/ Gross operating revenue includes Federal subsidies of $1,843,000. Net loss reflects the utilization of operating reserves absorbing the excess of expenditures over receipts.

4/ Replacement cost estimate at $60,000/unit.

5/ Replacement cost estimate at $70,000/unit.

6/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 542.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1983

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports.]

Year and month	Total units	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
1977: April 1/ .	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see *Historical Statistics of Hawaii*, p. 397.

Source: Federal Home Loan Bank of Seattle, *Honolulu Housing Vacancy Survey* (annual), as adjusted to 1982-1983 definitions.

Table 543.-- HOUSING VACANCY SURVEY OF OAHU: MARCH 1983

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers.]

Subject	All housing types	Single-family units	Multi-family units	Mobile homes
Total units	241,355	116,126	125,229	-
Vacant units	3,253	678	2,575	-
Used	2,558	396	2,162	-
New	695	282	413	-
Percent vacant	1.3	0.6	2.1	...
Units under construction	2,002	497	1,505	-

Source: Federal Home Loan Bank of Seattle, Honolulu, Hawaii, Housing Vacancy Survey, March, 1983.

Table 544.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: QUARTERLY, 1970 TO 1983

[Percent vacant, based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients.]

Year	Oahu 1/				Other islands 2/			
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.
1970 ..	4.0	3.4	2.7	3.9	...	2.1	4.1	2.5
1971 ..	4.6	3.2	2.2	2.4	3.6	4.6	6.4	5.9
1972 ..	3.8	4.2	3.5	2.4	4.8	6.5	4.7	6.0
1973 ..	2.7	2.6	2.4	2.9	4.4	5.0	4.7	6.0
1974 ..	4.4	4.2	4.7	2.2	6.5	3.9	3.6	4.7
1975 ..	3.0	5.0	8.2	5.8	6.7	7.0	8.2	5.8
1976 3/	...	...	4.7	5.4	...	...	5.5	5.7
1977 ..	5.3	5.9	6.5	6.5	6.4	5.3	6.9	2.8
1978 ..	4.3	2.8	3.6	4.2	6.7	4.1	3.9	3.7
1979 ..	2.7	3.0	2.3	3.1	4.0	6.0	2.8	3.9
1980 ..	2.6	4.8	4.3	3.8	2.8	5.4	5.5	5.6
1981 ..	3.0	5.4	5.0	4.5	5.7	5.7	6.4	5.4
1982 ..	3.4	2.9	4.1	3.6	4.2	5.3	3.7	7.3
1983 ..	3.3	3.7			5.9	5.4		

1/ Based on quarterly samples of 592 to 1,731 units before 1978 and 745 to 1,081 units in 1978-1983.

2/ Based on quarterly samples of 274 to 1,055 units before 1978 and 505 to 1,027 units in 1978-1983. Data are unavailable for the first quarter of 1970.

3/ Survey suspended during the first half of 1976.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 545.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1971 TO 1982

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau.]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1971	151,779	101,899	20.2	15.7
1972	159,796	108,331	20.7	16.3
1973	151,700	98,543	19.0	14.4
1974	133,781	90,647	16.6	12.7
1975	139,910	96,950	17.0	13.3
1976	139,922	110,100	16.6	14.4
1977	153,357	112,867	18.3	15.3
1978	148,048	110,451	15.5	14.7
1979	139,025	103,705	16.2	13.3
1980	122,691	89,981	13.5	11.1
1981	137,717	105,767	15.0	12.8
1982	147,684	115,685	15.8	13.8
Household heads:				
1971	36,502	24,761	21.1	16.4
1972	46,924	31,795	21.4	16.7
1973	44,197	28,663	19.5	14.5
1974	42,602	29,399	17.9	13.8
1975	46,900	32,633	18.9	14.8
1976	49,456	39,738	18.8	16.5
1977	53,482	40,102	19.8	16.6
1978	48,875	36,968	18.9	16.0
1979	45,908	34,069	17.2	14.0
1980	40,654	29,370	14.3	11.5
1981	48,264	36,780	16.5	14.0
1982	51,817	39,870	17.2	14.7

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 546.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1981 AND 1982

[Based on place of residence one year prior to survey date. Expanded from samples of 4,848 households in 1981 and 5,370 households in 1982.]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
1981					
State total	294,445	244,590	48,264	16.5	1,591
Military	29,203	17,720	11,483	39.3	-
Civilian	265,128	226,870	36,780	14.0	1,478
Status not reported	114	-	-	...	114
Oahu	226,884	190,492	35,369	15.7	1,023
Military	29,169	17,720	11,449	39.3	-
Civilian	197,623	172,772	23,920	12.2	931
Status not reported	92	-	-	...	92
Other islands	67,561	54,099	12,893	19.2	569
Hawaii	32,676	24,304	8,111	25.0	261
Kauai	11,768	10,332	1,364	11.7	72
Maui, Molokai, and Lanai	23,117	19,463	3,418	14.9	236
1982					
State total	303,182	249,404	51,817	17.2	1,961
Military 2/	30,507	18,151	11,946	39.7	410
Civilian 2/	272,234	231,253	39,870	14.7	1,111
Status not reported	441	-	-	0.0	441
Oahu	234,933	193,241	40,022	17.2	1,670
Military	30,304	18,057	11,837	39.6	410
Civilian	204,189	175,184	28,186	13.8	819
Status not reported	441	-	-	0.0	441
Other islands	68,249	56,163	11,794	17.4	292
Hawaii	31,444	24,566	6,775	21.6	103
Kauai	11,872	10,675	1,143	9.7	54
Maui, Molokai, and Lanai	24,933	20,922	3,876	15.6	135

1/ Military status of household head at the time of the survey.

2/ Based on number reporting.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 547.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1982

[Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977.]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ .	9,926	5,714	57.6	82,076
1979-1980 1/ .	13,506	8,009	59.3	103,698
1980-1981 1/ .	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227
1982	9,872	2,981	30.2	143,146

1/ Year ended February 28 or 29.
2/ Data cover period of March through December only.
Source: Honolulu Board of Realtors, records.

Table 548.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1982

Year	Number of units listed		Number of units sold	
	Residential 1/	Condominium	Residential 1/	Condominium
1972	3,472	2,080	2,891	1,306
1973	4,148	3,185	2,699	2,379
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 2/ ...	3,522	6,404	2,139	3,575
1979-1980 2/ ...	4,105	9,401	2,253	5,756
1980-1981 2/ ...	4,352	9,738	1,820	3,733
1981	3/ 4,012	3/ 8,708	1,532	2,436
1982	4,445	8,259	1,268	1,606

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential 1/	Condominium	Residential 1/	Condominium
1972	83.3	62.8	65,723	43,869
1973	65.1	74.7	85,914	46,811
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 2/ ...	60.7	55.8	114,264	67,783
1979-1980 2/ ...	54.9	61.2	151,775	84,880
1980-1981 2/ ...	41.8	38.3	169,107	103,342
1981	3/ 34.1	3/ 24.9	191,597	111,056
1982	28.5	19.4	184,227	107,185

1/ Single-family structures.
2/ Year ended February 28 or 29.
3/ Data cover period of March through December only.
Source: Honolulu Board of Realtors, records.

Table 549.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL UNITS, BY NUMBER OF BEDROOMS, FOR OAHU: 1982

["Residential" refers to single-family structures.]

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All units 1/	4,445	1,268	28.5	233,600	184,227
No bedrooms	8	-	-	-	-
1 or 2 bedrooms	329	94	28.6	17,254	183,561
3 bedrooms	2,419	735	30.4	116,939	159,101
4 or more bedrooms	1,675	437	26.1	97,757	223,699

1/ Categories do not sum to totals indicated for unexplained reason.
Source: Honolulu Board of Realtors, records.

Table 550.-- OFFICE BUILDING OCCUPANCY, FOR HONOLULU: QUARTERLY, 1980 TO 1983

[Floor area occupied as percent of total floor area of offices surveyed. Most of the office buildings surveyed are in the Honolulu central business district, but a few are at other locations in Honolulu.]

Year	1st quarter	2nd quarter	3rd quarter	4th quarter
1980	96.6	97.9	...	98.6
1981	98.7	...	98.8	97.5
1982	...	92.4	92.2	90.2
1983	...	87.5		

Source: Building Owners and Managers Association, Hawaii, Newsletter (monthly).

Table 551.-- OFFICE SPACE IN DOWNTOWN HONOLULU: 1949 TO 1982

[As of December 31.]

Year	Buildings	Office space (square feet)
1949	9	423,500
1959	14	580,100
1964	20	937,700
1969	30	1,960,100
1974	37	3,403,700
1979	42	4,192,200
1980	43	4,274,200
1981	43	4,274,200
1982 1/	45	4,760,800

1/ Projected.

Source: Data from Hastings, Martin, Chew and Associates, as updated, in Hawaii Business, April 1982, p. 40.

Table 552.-- AVERAGE BASE RENT AND VACANCY RATE, FOR HONOLULU OFFICE BUILDINGS: 1979 TO 1982

[As of June.]

Year	Average base rent (dollars per sq. ft. per year)		Vacancy rate (percent)
	New buildings	Old buildings	
1979	10.80	9.00	2.0
1980	12.00	10.00	1.5
1981	17.40	13.20	0.4
1982	21.00	19.80	6.6

Source: Howard Ecker and Co., Chicago, "Renters Market Blooms for Honolulu Office Space Users as Building Boom Reaches New Heights," release dated June 1, 1982, reporting results of 12th semi-annual Ecker Survey.

Table 553. — NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1973 TO 1983

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	24,902	1,306,408,450
1979	28,586	3,709,276,737
1980	28,996	4,529,726,150
1981	23,213	3,960,013,179
1982	20,372	2,892,628,137
1983	22,943	3,027,487,507

1/ Data include leases, agreement of sales assignments; subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Annual Report (annual); Bureau of Conveyances, records.

Table 554.— APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1980 TO 1982

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds.]

County	1980	1981	1982
State total	3,857,161,012	3,200,331,490	3,011,059,604
Honolulu	2,518,584,243	2,078,739,157	1,911,710,643
Maui	549,819,017	424,993,830	602,463,697
Hawaii	487,446,102	397,740,539	293,310,474
Kauai	301,311,650	298,857,964	203,574,790

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 555.-- REAL ESTATE LICENSEES: JUNE 21, 1982

Category	Active licensees			Inactive licensees		
	Total	Residents	Nonresidents	Total	Residents	Nonresidents
Total	16,590	16,547	43	6,279	5,493	786
Broker	4,674	4,667	7	426	319	107
Salesmen	10,613	10,577	36	5,762	5,087	675
Corporation	1,175	1,175	-	90	86	4
Partnership	18	18	-	1	1	-
Branch office ..	110	110	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Real Estate Commission, 1982 Annual Report, p. 3.

Table 556.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1977 TO 1982

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1977 ...	27,799	2,166,606	77,938	8,470	2,696	411,525
1978 ...	31,070	2,504,979	80,624	8,392	3,074	611,732
1979 ...	38,309	3,201,376	83,567	335	3,918	1,133,166
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 30.

Table 557.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1972 TO 1982

[In thousands of dollars. As of December 31.]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	5,320,761	1,150,080	2,762,269	1,913	330,902	1,075,597
1979	6,323,194	1,399,782	3,256,232	466	406,753	1,259,961
1980	7,131,368	1,493,470	3,708,523	77	502,964	1,426,334
1981 2/..	7,498,041	1,585,846	3,949,941	77	603,720	1,458,457
1982	(NA)	1,620,947	3,878,564	313	779,332	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

2/ Corrected from Data Book 1982, table 505.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division and Insurance Division.

Table 558.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1981

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
Volume of FHA-insured mortgages:				
Number	56	157	215	131
Amount ($1,000)	3,908	12,542	15,732	10,955
Average:				
Sample size	29	88	88	66
Property value	(S)	$99,745	$111,231	$102,991
Market price of site	(S)	$65,147	$56,226	$52,090
Percent of value	(S)	65.7	50.5	50.4
Improved living area 2/ (square feet)	(S)	1,107	1,077	1,128
Age of structure 3/ (years)	...	...	9.9	7.8
Price of site per square foot	(S)	$8.82	$8.06	$7.34
Lot size (square feet)	(S)	8,393	7,734	8,097
Mortgagor's total annual income 3/	(S)	$31,428	$36,545	$31,250
Monthly cost of heating and utilities	(S)	$66.10	$71.12	$68.23
Sale price per square foot 2/	(S)	$81.26	$81.79	$76.34
Construction cost per square foot	(S)	$52.25	...	...

(S) Sample too small for reliable estimate.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 559.-- CHARACTERISTICS OF HOME PURCHASES, FOR OAHU: SECOND QUARTER, 1981

[Based on a sample of conventional mortgage loans made by savings associations.]

Subject	Amount
Borrower characteristics:	
Median age (years)	42
1 or 2 person households (percent)	62.2
Married (percent)	80.6
First-time buyers (percent)	2.0
Median annual income of household (dollars) 1/	60,000
Second income 2/	42.7
Home characteristics:	
Median purchase price (dollars) 3/	108,122
Age: New (percent)	49.0
25 years old or more (percent)	7.1
Median size (square feet)	973
Condominium (percent)	78.6
Median monthly housing expense (dollars)	1,072
Median downpayment (dollars)	25,200
Housing expense exceeding 25 percent of household income (percent)	29.3

1/ The U.S. median was $39,196.

2/ Percent of households with two adults in which income contributed by a second earner accounted for 10 percent or more of total household income.

3/ The U.S. median was $72,000.

Source: United States League of Savings Associations, Homeownership: The American Dream Adrift (1982), pp. 57 and 88.

Table 560.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1982

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total 1/	3,646	3,054	107	89	306	1	2	87
Elevators	3,112	2,579	–	85	285	–	1	80
Under 9 stories	1,707	1,260	73	85	216	–	1	72
Hydro	614	424	27	26	96	–	1	40
Roped	1,093	836	46	59	120	–	–	32
9 to 18 stories	862	781	9	–	64	–	–	8
19 to 28 stories	325	318	–	–	5	–	–	–
29 to 38 stories	164	164	–	–	–	–	–	–
39 stories or more	54	54	–	–	–	–	–	–
Escalators and moving walks	250	243	6	–	1	–	–	–
Inclined lifts	10	2	3	–	2	–	1	1
Man lifts	10	10	–	–	–	–	–	–
Dumbwaiters	263	219	16	–	18	1	–	6
Handicapped lift	1	1	–	–	–	–	–	–
Other facilities	–	–	–	–	–	–	–	–
Personnel hoists 1/	3	3	–	–	–	–	–	–
Buildings with facilities 1/	1,652	1,371	65	42	135	1	2	36

1/ Personnel hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 561.-- TALLEST STRUCTURES ON OAHU: MARCH 1983

Category and name or structure	Address	Year completed	Height 1/	
			Stories	Feet
Apartment houses:				
Regency Tower II	98-288 Kaonohi St. ...	1979	43	350
Century Park Plaza	1060 Kam Hwy.	1985	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave. ...	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Ala Nanala Apt.	990 Ala Nanala	1983	40	350
Honolulu Tower	60 No. Beretania St. .	1983	40	350
Hotels:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel.......	155 Liliuokalani Ave..	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave. ...	1976	39	350
Tapa Tower	2005 Kalia Rd.	1982	36	350
Office buildings:				
Executive Centre 3/	1088 Bishop St.	1984	41	350
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	350
1001 Bishop	1001 Bishop St.	1983	28	350
Aloha Tower	Pier 9, foot of Fort Street	1926	10	184
Towers and steeples:				
VLF Antenna 4/	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd. .	c. 1966	...	436
Dole Water Tower	Iwilei	1927	...	199
Central Union Church	1660 So. Beretania St.	1924	...	160

1/ For structures authorized since adoption of 350-feet height limit in 1969, data may exclude the elevator machine room.

2/ Measured to the top of the elevator machine room.

3/ Office/apartment structure.

4/ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records; Robert C. Schmitt, "Some Construction and Housing Firsts in Hawaii," The Hawaiian Journal of History, Vol. 15 (1981), pp. 100-112.

Table 562.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1982

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
APARTMENT HOUSE				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Kauai:				
Waikomo Villas	Koloa	(UC)	4	52
Kapaa Shores	Kapaa	1974	4	48
Poipu Shores	Koloa	1975	4	48
Maui:				
Mana Kai Apartment	Kihei	1973	8	92
HOTEL				
Hawaii:				
Naniloa Surf	Hilo	1966	12	131
Kauai:				
Kauai Surf Hotel	Lihue	1959	10	107
Sheraton Kauai Hotel	Koloa	1981	4	48
Maui:				
Royal Lahaina Hotel	Kaanapali	1970	12	132
The Whaler Hotel	Kaanapali	1975	12	110
Hyatt Regency Hotel	Kaanapali	1980	9	110
OFFICE BUILDING				
Hawaii:				
Hawaiian Telephone	Hilo	1970	4	62
Kauai:				
State Building	Lihue	1968	4	45
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Wailuku Sugar Co.	Wailuku	1906	5	100

Continued on next page.

Table 562.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1982 -- Con.

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
TOWER				
Hawaii:				
Coast Guard Loran Station	Upolu Point ..	1958	...	625
Kauai:				
Communication Engineers Tower .	Mana	1964	...	400
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
KNUI Radio Tower	Kihei	1969	...	280
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
OTHER STRUCTURES				
Hawaii:				
Puna Sugar Power Plant	Keaau	1971	6	(NA)
Kauai:				
Lihue Plantation Co. thermal power plant	Lihue	1981	...	114
Wilcox Memorial Hospital	Lihue	1974	4	40
McBryde Sugar Co.	Koloa	1974	3	40
Maui:				
Pioneer Mill Co. smoke stack ..	Lahaina	1928	...	220
HC and S Co. smoke stack	Puunene	1900	...	107

NA Not available.
UC Under construction.

Source: Hawaii County Department of Research and Development, January 22, 1982; Kauai County Department of Public Works, March 29, 1982; Maui County Department of Public Works, March 31, 1982.

Table 563.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND OTHER FACILITIES ON OAHU: JUNE 1983

[Many of these figures are estimates, especially in the case of bench or pew seating, where seating capacity varies. All figures are based on fixed seating, except for the Neal Blaisdell Center Arena and the Hilton Hawaiian Village Dome. For earlier statistics, see the Honolulu Redevelopment Agency, "Seating Capacities in Hawaii, 1901-1962," Redevelopment and Housing Research, No. 22, December 1962, pp. 28-33.]

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium 1/	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena 2/	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Activity Center	5,000
Theaters and auditoriums:	
Neal Blaisdell Center Arena 3/	8,800
Andrews Amphitheater	4,000
Neal Blaisdell Center Concert Hall	2,158
Waikiki Shell	1,958
Hilton Hawaiian Village Dome	1,500
Waikiki 3 Theater	1,337
Hawaii Theater 4/	700
Kennedy Theater	600
Ruger Theater	507
Churches:	
Kawaiahao Church	1,300
St. Anthony's 5/	980
Central Union Church (Sanctuary)	800
St. Theresa's	800
St. Andrew's Cathedral	750
Cathedral of Our Lady of Peace	700
St. Augustine's	700
Star of the Sea	700

Footnotes and source on next page.

Table 563. -- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND OTHER FACILITIES ON OAHU: JUNE 1983 — Con.

1/ Capacity in football configuration.

2/ Capacity in boxing configuration.

3/ Capacity in concert configuration.

4/ As of 1979. In 1922, when the Hawaii Theater was opened, its capacity was 1,760, the greatest of any theater in the Territory.

5/ Destroyed by fire in July 1982. A new facility is expected to be completed in February 1984 with a seating capacity of approximately 750.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; The Hawaiian Journal of History, I (1967), pp. 73-82; and officials of the facilities listed.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 773 in 1972 and 949 in 1977. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, $786 million in 1977, and $1,249 million in 1980. Three-fourths of all manufacturing activity in the State in 1977 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 44 percent of the value added by manufacture in that year. Between 1972 and 1982, the general excise and use tax base increased 54 percent for sugar processing, 49 percent for pineapple canning, and 72 percent for all other manufacturing. There were three pineapple canneries and 15 sugar mills in Hawaii in mid-1982. The production of canned pineapple fruit and juices in 1981 amounted to 18 million actual cases, well below the levels of earlier years. Sugar production in 1982 amounted to 983,000 short tons, somewhat below the level of other recent years. The value of sugar production (including commercial molasses) was $352 million, compared with the record of $677 million set in 1974. Important manufactures other than food processing include apparel ($37 million in value added in 1980), printing and publishing ($134 million), and chemicals and allied products ($35 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted (but not yet published) for 1982, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1982-83.

Table 564.--MANUFACTURES: 1971 TO 1981

Year	All employees		Production workers		
	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)	Wages (millions of dollars)
1971 ..	24.4	176.6	17.5	34.3	105.7
1972 ..	24.8	191.1	17.7	33.1	113.7
1973 ..	24.3	195.5	17.5	31.9	117.9
1974 ..	22.5	210.4	15.8	28.8	116.6
1975 ..	23.7	236.7	16.9	30.6	133.0
1976 ..	24.2	266.4	17.1	30.8	153.9
1977 ..	25.0	276.8	17.4	31.3	160.5
1978 ..	23.7	285.2	17.4	30.9	173.0
1979 ..	(NA)	(NA)	(NA)	(NA)	(NA)
1980 ..	26.5	(NA)	(NA)	(NA)	(NA)
1981 ..	26.4	(NA)	(NA)	(NA)	(NA)

Year	Number of establishments	Value added by manufacture (millions of dollars)	Cost of materials 1/ (millions of dollars)	Value of shipments 1/ (millions of dollars)	New capital expenditures (millions of dollars)
1971 ..	(NA)	435.0	465.9	899.9	28.0
1972 ..	773	410.0	548.3	955.6	46.7
1973 ..	(NA)	496.1	592.9	1,086.4	36.6
1974 ..	(NA)	913.8	952.9	1,848.2	50.2
1975 ..	(NA)	685.4	1,116.2	1,800.3	51.5
1976 ..	(NA)	700.3	1,156.8	1,854.8	55.6
1977 ..	949	785.5	1,176.1	1,974.0	44.4
1978 ..	(NA)	782.9	1,284.8	2,063.1	46.0
1979 ..	(NA)	(NA)	(NA)	(NA)	(NA)
1980 ..	(NA)	1,249.1	(NA)	3,470.0	(NA)
1981 ..	(NA)	(NA)	(NA)	3,626.3	(NA)

NA Not available.

1/ Aggregate cost of materials and value of shipments figures for manufacturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1978 Annual Survey of Manufactures, Statistics for States, Standard Metropolitan Statistical Area, Large Industrial Counties, and Selected Cities, M78(AS)-6 (September 1981), p. 101; 1981 Annual Survey of Manufactures, Origin of Exports of Manufactured Products, M81(AS)-5 (May 1983), pp. 14-17; and unpublished data supplied June 15, 1983.

Table 565.-- MANUFACTURES, BY GEOGRAPHIC AREAS: 1977

Geographic area	All establishments 1/		All employees 1/		Value added by manufacture (million dollars)	Value of shipments 2/ (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)		
State total .	949	231	25.0	276.8	785.5	1,974.0
COUNTIES						
Honolulu	759	191	19.6	215.2	585.8	1,581.5
Others	190	40	5.4	61.6	199.7	392.5
Hawaii	99	16	2.4	30.4	83.1	157.7
Kauai	26	6	0.7	8.2	25.4	70.3
Maui	64	18	2.3	22.9	91.1	164.4
URBAN PLACES 3/						
Hilo	61	8	0.7	8.9	13.7	32.4
Honolulu	657	159	17.1	183.9	416.8	1,106.4
Kahului	17	6	(D)	(D)	(D)	(D)
Wailuku	23	6	0.5	4.8	8.8	17.3
Waipahu	13	5	0.7	7.0	7.9	33.2

(D) Withheld to avoid disclosing operations of individual companies.

1/ Including central administrative offices and auxiliaries.

2/ Aggregate value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

3/ With 450 manufacturing employees or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), p. 12-4.

Table 566.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1978

SIC code	Industry	All employees: Number (1,000)	All employees: Payroll (million dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (million dollars)
	All industries	23.7	285.2	17.4	30.9	173.0
20	Food and kindred products .	10.8	120.7	8.3	14.9	78.5
2033	Canned fruits and veg. ..	3.5	28.9	3.1	5.1	23.3
206	Sugar, confect. products	3.7	46.9	2.8	6.0	33.2
2061	Raw cane sugar	3.2	41.6	2.3	5.2	29.8
23	Apparel, textile products .	3.3	24.4	2.9	5.2	18.4
27	Printing and publishing ...	2.5	37.1	1.3	2.3	18.8
28	Chemicals, allied products	.4	5.2	.2	.3	2.1
34	Fabricated metal products .	.4	5.8	.2	.6	3.7
35	Machinery, except electric	.3	2.7	.2	.6	1.8
37	Transportation equipment ..	.7	13.3	.7	.6	11.1
—	Administrative, auxiliary .	.6	16.2	-	-	

SIC code	Industry	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
	All industries	782.9	1,284.8	2,063.1	46.0	183.9
20	Food and kindred products .	371.2	495.3	865.3	27.7	77.8
2033	Canned fruits and veg. ..	81.3	101.6	182.9	2.9	34.4
206	Sugar, confect. products	176.7	181.0	357.8	17.8	21.4
2061	Raw cane sugar	129.6	155.1	284.7	17.1	12.1
23	Apparel, textile products .	45.9	33.1	78.8	.7	13.8
27	Printing and publishing ...	97.9	37.8	135.1	2.4	6.5
28	Chemicals, allied products	21.7	32.8	52.0	1.6	10.1
34	Fabricated metal products .	(Z)	40.3	41.1	.3	10.9
35	Machinery, except electric	3.6	3.4	6.6	.7	1.6
37	Transportation equipment ..	28.4	20.7	49.0	(D)	2.0
—	Administrative, auxiliary .	-	-	-	-	-

D Withheld to a~~void~~ disclosing information on individual companies.

Z Less than half the unit of measurement shown.

Source: U.S. Bureau of the Census, Statistics for States, Standard Metropolitan Statistical Areas, Large Industrial Counties, and Selected Cities, 1978 Annual Survey of Manufactures, M78(AS)-6 (September 1981), p. 102.

Table 567.-- VALUE ADDED BY MANUFACTURE FOR SELECTED MAJOR INDUSTRY GROUPS: 1980

[In millions of dollars.]

SIC code	Industry	Value added
	All industries	1,249.1
20	Food and kindred products	630.2
23	Apparel and other textile products	37.3
24	Lumber and wood products	12.5
27	Printing and publishing	134.1
28	Chemicals and allied products	35.3
30	Rubber and miscellaneous plastics products	1.4
34	Fabricated metal products	31.9
37	Transportation equipment	16.2

Source: U.S. Bureau of the Census, 1980 Annual Survey of Manufactures, unpublished data supplied June 15, 1983.

Table 568.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1980

Island	Number of industrial parks and areas	Acres	
		Total	Developed
State total	35	3,218.9	3,065.7
Hawaii	6	633.3	633.3
Maui	5	193.5	169.7
Lanai	-	-	-
Molokai	-	-	-
Oahu	21	2,330.1	2,242.7
Kauai	3	62.0	20.0
Niihau	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1980.

Table 569.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1972 TO 1982

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980 4/ ...	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732
1982	1,033,845	317,880	185,367	530,598

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

4/ Revised from 1981 edition, table 511.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 570.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1972 TO 1982

Year	Pineapple 1/		Sugar 2/	
	Companies	Canneries	Companies 3/	Mills
1972	4	4	21	23
1973	3	3	19	21
1974	3	3	17	20
1975	3	3	16	17
1976	3	3	16	17
1977	3	3	16	16
1978	3	3	15	14
1979	3	3	15	14
1980	3	3	15	14
1981	3	3	15	14
1982	3	3	15	14
ISLANDS: 1982				
Hawaii	-	-	5	5
Maui	1	1	3	3
Oahu	2	2	2	2
Kauai	-	-	5	4

1/ As of end of canning season.

2/ As of December 31.

3/ Excludes United Cane Planters' Cooperative, which consists of small independent growers.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 571.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-71 TO 1981

[In thousands. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981.]

Year 1/	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 2/	Actual cases	Standard cases 3/	Equivalent 6/10 cases	Standard cases 3/
1970-1971 ..	17,718	12,028	10,590	8,100	1,016	929
1971-1972 ..	17,961	12,537	11,004	8,400	789	722
1972-1973 ..	15,891	11,108	9,282	7,400	633	580
1973-1974 ..	14,042	9,550	8,470	6,600	886	810
1974-1975 ..	11,584	8,110	5,643	4,400	438	400
1975-1976 ..	12,142	8,200	6,173	4,800	471	520
1976-1977 ..	12,160	8,270	7,295	5,600	346	320
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980 and 1981.

2/ 24 No. 2 1/2 can, 45-lb. cases.

3/ 24 No. 2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 572.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1976 TO 1981

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1976 ...	4,657	44,918,405	9,645
1977 ...	4,924	52,413,689	10,645
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402
1980 ...	4,861	66,737,788	13,729
1981 ...	4,675	70,207,745	15,018

Source: Hawaii Employers Council, unpublished estimates.

Table 573.-- SUGAR AND MOLASSES PRODUCTION: 1972 TO 1982

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,831
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 ...	216,099	97,573	8,831,477	1,047,541	979,031	311,719
1982 ...	204,750	89,261	8,807,998	982,913	918,610	273,780

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1983, pp. 4-5.

Table 574.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1972 TO 1982

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71
1982 ...	19.94	6,816	1,519,732	-	65.11	30.83

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.

Table 575.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1972 TO 1982

[In millions of dollars. Calendar year data unless otherwise specified.]

Year	Pineapple		Sugar		
	Canned fruit and juices 1/	Fresh market sales 2/	Value of production		Government sugar support payments
			Raw sugar 96°	Commercial molasses	
1972 ..	140.5	4.9	176.6	8.1	9.7
1973 ..	135.0	7.4	203.8	18.4	9.5
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.59	314.2	13.7	-
1982 ..	151.0	55.04	343.9	7.6	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades, in part because of higher prices. Retail sales increased from $1.1 billion in 1967 to $1.9 billion in 1972 and $3.3 billion in 1977. Wholesale sales rose from $1.0 billion in 1967 to $2.6 billion in 1977. Hotels, amusements, and other services reported receipts of $1.3 billion in 1977, compared with $310 million in 1967. General excise and use tax base data for more recent years indicate continued increases; between 1977 and 1982, the retailing tax base rose 63 percent, the wholesaling base by 61 percent, and the base for services by 74 percent. Major retail concentrations include Ala Moana Center, Waikiki, Pearlridge Center, and downtown Honolulu. The 19 department stores on Oahu reported sales of $425 million in 1980. In addition to civilian retail outlets, there are 152 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of $405 million in 1982.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 33,000 in 1971 and 59,000 in June 1983. There were 430 hotels, motels and apartment-hotels in the State on the latter date, including 270 on the Neighbor Islands. A fourth of all transient units were in condominium structures. Occupancy rates averaged 77.7 percent in Waikiki and 60.0 percent on the Neighbor Islands during 1982. The average daily room rate was $51.78 in 1982. The hotel payroll in 1982 totaled $291 million, compared with $94 million ten years earlier.

Sixty-six feature motion pictures and television specials and series were filmed in Hawaii in 1982, accounting for local expenditures of $32 million.

The major source of these data is the United State Census of Business, most recently conducted for 1982. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Hawaii Film Office in the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1982-83, Section 30, presents similar data for other states and the nation as a whole.

Table 576.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1963 TO 1977

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; and 1977 Census of Service Industries, SC77-A-12, table 2.

Table 577.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1972 TO 1982

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems.]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1972	2,213,704	578,260	53,108	1,002,214
1973	2,560,799	697,419	60,079	1,220,818
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980 4/ ...	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763
1982	6,874,963	1,905,068	130,280	3,207,768

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

4/ Revised.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 578.-- CHARACTERISTICS OF RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES: 1977

Subject	Retail trade	Wholesale trade	Selected services 1/
All establishments:			
Number	7,388	1,569	8,023
Sales ($1,000)	3,294,118	2,571,489	...
Receipts ($1,000)	...	...	1,276,163
Inventories, Dec. 31 ($1,000)	...	248,195	...
Operating expenses ($1,000)	...	375,803	...
Unincorporated businesses (number):			
Sole proprietorships	3,120	...	5,540
Partnerships	516	...	456
Establishments with payroll:			
Number	5,273	...	3,306
Sales ($1,000)	3,222,715	...	...
Receipts ($1,000)	...	...	1,216,214
Payroll ($1,000):			
Entire year	460,322	177,556	389,691
First quarter	111,143	43,517	94,434
Paid employees, week incl. March 12	72,098	14,695	49,438

1/ Includes hotels; personal services; business services; automotive repair, services, and garages; miscellaneous repair services; amusement and recreation services, including motion pictures; dental laboratories; legal services; and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 1; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1, and 1977 Census of Service Industries, SC77-A-12, table 1.

Table 579.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES, BY COUNTIES: 1977

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Retail trade:					
Number of establishments	7,388	5,367	846	433	742
Sales ($1,000)	3,294,118	2,604,207	275,938	126,399	287,574
Wholesale trade:					
Number of establishments	1,569	1,277	148	49	95
Sales ($1,000)	2,571,489	2,166,760	185,159	58,848	160,722
Selected service industries: 1/					
Number of establishments	8,023	6,214	797	340	672
Receipts ($1,000)	1,276,163	963,452	133,601	56,421	122,689

1/ Includes hotels, motels, personal services, business services, automotive repair, services, and garages, miscellaneous repair services, amusement and recreation services (including motion pictures), dental laboratories, legal services, and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 7; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 7; 1977 Census of Service Industries, SC77-A-12, table 7.

Table 580.-- RETAIL TRADE, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Sales ($1,000)
Retail trade	7,388	3,294,118
Building materials, hardware, garden supply, and mobile home dealers	194	74,462
General merchandise group stores	259	631,505
Food stores	876	651,259
Automotive dealers	291	457,429
Gasoline service stations	415	176,079
Apparel and accessory stores	733	204,037
Furniture, home furnishings, and equipment stores	444	102,188
Eating and drinking places	1,657	484,098
Drug and proprietary stores	115	174,155
Miscellaneous retail stores	2,404	338,906

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC 77-A-12, table 1.

Table 581.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS, BY BROAD GEOGRAPHIC AREAS: 1977

[Excludes establishments without payroll.]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	Oahu	Rest of state	Oahu	Rest of state
Total 1/	3,815	1,458	2,553,848	668,867
Groceries and other foods	657	337	448,827	159,004
Meals and snacks	1,138	363	333,143	74,666
Alcoholic drinks	501	156	75,702	13,947
Packaged alcoholic beverages	317	204	76,243	21,613
Cigars, cigarettes, and tobacco	366	230	29,565	6,004
Drugs	227	169	38,918	9,436
Health and beauty aids	329	247	60,139	11,146
Men's, boys' clothing exc. footwear	449	283	107,810	22,868
Women's, girls' wear exc. footwear	513	310	176,151	36,512
Footwear exc. infants and toddlers	299	176	51,503	7,601
Curtains, draperies, and dry goods	205	123	39,684	10,065
Major household appliances	114	56	24,471	9,284
Small electric appliances	153	89	11,400	3,587
Televisions	94	58	9,326	3,651
Audio equip., musical instr., supplies	176	89	27,308	4,658
Furniture and sleep equipment	139	61	34,250	10,234
Floor coverings	114	58	11,431	3,509
Kitchenware and home furnishings	387	274	50,500	13,232
Jewelry	561	310	123,294	19,823
Optical goods	97	55	7,588	525
Sporting goods	160	89	41,086	9,499
Hardware and tools	126	117	19,796	11,647
Lawn and garden equip., supplies	216	120	23,764	7,971
Lumber and building materials	110	61	34,314	17,029
Cars, trucks, powered vehicles	66	28	269,917	67,976
Automotive fuels and lubricants	339	151	113,529	37,066
Auto tires, batteries, accessories	429	171	65,794	21,010
All other merchandise	775	433	169,278	39,123
Nonmerchandise receipts	674	275	78,812	15,894
Miscellaneous merchandise	(X)	(X)	305	287

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade: Merchandise Line Sales, Hawaii (unpublished tabulations filed in the Hawaii Department of Planning and Economic Development Library).

Table 582.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1977

[Data are shown only for establishments with payroll.]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Hardware stores	33	11,604	177	126	92	71.2
Department stores	23	375,943	2,766	1,762	213	63.7
Variety stores	43	63,776	964	652	98	67.6
Grocery stores	396	584,218	2,687	1,857	315	69.1
Apparel and accessory stores	599	200,547	1,326	985	204	74.3
Drug and proprietary stores	103	173,509	833	592	293	71.1
Sporting goods stores ..	103	27,446	198	152	181	76.8

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), table 29.

Table 583.-- DEPARTMENT STORES, FOR THE STATE, OAHU, AND HONOLULU: 1948 TO 1980

Year	Number of stores, Dec.			Sales 1/ ($1,000)		
	State total	Oahu	Honolulu 2/	State total	Oahu	Honolulu 2/
1948	2	2	2	(D)	(D)	(D)
1954	4	4	2	(D)	(D)	(D)
1958	7	7	5	30,629	30,629	(D)
1963	13	13	7	71,776	71,776	63,021
1967	15	15	10	131,843	131,843	122,260
1972	19	15	10	215,428	205,619	167,758
1977	23	19	12	375,943	354,087	251,219
1978 3/ ..	...	19	...	...	373,774	...
1979 3/ ..	...	19	...	...	403,663	...
1980 3/ ..	...	19	...	...	424,525	...

D Withheld to avoid disclosing data for individual companies.

1/ Data after 1972 exclude sales taxes and finance charges.

2/ Area southwest of the crest of the Koolau Mts., between Red Hill and Makapuu Pt.

3/ Survey data, limited to Oahu. Annual statistics were discontinued after 1980.

Source: U.S. Bureau of the Census, U.S. Census of Business: 1948, Bull. No. 1-RWS-51; U.S. Census of Business: 1954, Bull. R-1-52 and CBD-47; U.S. Census of Business: 1958, BC58-RA52 and BC58-CBD36; U.S. Census of Business: 1963, BC63-RA13 and BC63-MRC-43; U.S. Census of Business, 1967, BC67-RA13 and BC67-MRC-12; Census of Retail Trade, 1972, RC72-A-12 and RC72-C-12; 1977 Census of Retail Trade, RC77-A-12 and RC77-C-12; Current Business Reports, Monthly Department Store Sales in Selected Areas, BD-80-1, January 1980, and BD-80-12, December 1980.

Table 584.-- EATING PLACES AND DRINKING PLACES: 1977

[Data are shown only for establishments with payroll.]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	633	28	448	290
Seating capacity	69,956	(NT)	18,587	22,178
Sales ($1,000)	249,946	5,646	138,075	50,453
With waiter or waitress service:				
Number of establishments	633	-	63	267
Sales ($1,000)	249,946	-	12,501	47,339
Establishments by average cost per meal:				
Under $2.00	63	2	252	...
$2.00 to $4.99	388	26	191	...
$5.00 to $9.99	135	-	5	...
$10.00 or more	47	-	-	...
Establishments by primary type of food service:				
Tables/booths with waiter/waitress service	627	-	46	...
Counters with seats and/or standup	-	2	95	...
Self-service with inside seating	-	24	139	...
Other	6	2	168	...
Franchise holders:				
Number of establishments	30	(NT)	117	(NT)
Sales ($1,000)	17,045	(NT)	57,461	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 8, 10, 12, 14, and 15.

Table 585.-- MAJOR SHOPPING CENTER STATISTICAL SUMMARY: 1976 TO 1981

[All figures except sales are as of December 31.]

Year	Number of stores	Retail floor space (1,000 sq. ft.)	Annual sales 1/ ($1,000)	Parking spaces	Land area (acres)
Ala Moana Center:					
1976 ...	155	1,383.1	261,160	7,800	50
1977 ...	155	1,433.8	285,752	7,800	50
1978 ...	155	1,434.7	325,564	7,800	50
1979 ...	155	1,435.4	351,504	7,800	50
1980 ...	155	1,501.8	(NA)	7,800	50
1981 ...	155	1,501.8	380,000	7,800	50
Pearlridge Center:					
1981 ...	140	1,200.0	240,000	4,950	59
Kahala Mall:					
1981 ...	60	370.0	70,300	1,500	22

NA Not available.

1/ 1981 data are estimates by Hawaii Business.

Source: Ala Moana Center, management office, records; "The Last of the Shopping Centersµ," Hawaii Business, December 1982, pp. 26-30.

Table 586.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1981

[Includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area.]

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1958	50	1,500	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	60
Pearl City S. C. ...	Pearl City	1965	15	249	900	36
Pearlridge Center ..	Aiea	1972	59	1,200	4,950	140
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Windward Mall	Kaneohe	1982	32	540	2,350	103
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	276	1,400	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	27	203	1,250	40
Kauai:						
Lihue S. C.	Lihue	1966	9	142	551	24

Source: The Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (July 1981).

Table 587.-- SHOPPING CENTERS: 1977 TO 1982

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1977 1/	2,374	1,719	655	9,142	7,422	1,720
1978	2,635	1,729	906	9,602	7,492	2,110
1979	2,734	1,818	916	10,002	7,806	2,196
1980	2,755	1,839	916	10,149	7,953	2,196
1981	(NA)	(NA)	(NA)	10,895	(NA)	(NA)
1982	(NA)	(NA)	(NA)	11,000	(NA)	(NA)

NA Not available.

1/ Revised from Data Book 1982, table 533.

Source: Bank of Hawaii, Hawaii 79 (August 1979), p. 33; Hawaii 81 (August 1981), p. 30; Hawaii 1983 (1983), pp. 17 and 28; and records.

Table 588.-- CHARACTERISTICS OF MAJOR RETAILERS: 1978 TO 1981

Name of company	Number of stores, 1981	Number of employees, 1981	Sales ($1,000)		
			1981	1980	1978
Foodland Super Market, Inc.	27	1,200	170,100	153,100	(NA)
Liberty House, Inc.	51	(NA)	166,700	156,200	127,576
Duty Free Shoppers, Inc. ..	2	1,400	159,700	152,000	137,000
Longs Drug Stores, Inc. ...	13	900	125,000	120,000	105,020
Sears, Roebuck and Co.	7	2,000	122,000	112,500	105,849
Times Super Market, Ltd. ..	13	600	112,300	101,100	79,119
Safeway Stores, Inc.	10	500	96,100	86,500	(NA)
Servco Pacific, Inc. 1/ ...	12	(NA)	93,100	85,300	87,731
Star Markets, Ltd.	9	450	89,000	80,100	62,621
J. C. Penney Co., Ltd.	4	1,200	79,400	76,000	51,677

NA Not available.

1/ Retail only.

Source: Hawaii Business, Vol. 28, No. 6 (December 1982), p. 23.

Table 589.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1972 TO 1982

[In thousands of dollars. Data for food service facilities, incomplete before 1977, and miscellaneous facilities, incomplete before 1980, are excluded from this table but are included in the following table.]

Calendar year	Total	Commissaries	Exchanges	Clubs
1972 1/	136,088	37,618	87,702	10,768
1973 1/	144,857	41,017	92,014	11,826
1974 1/	158,481	45,682	101,127	11,672
1975 1/	215,947	67,459	129,495	18,993
1976	217,609	67,183	129,341	21,085
1977	223,775	66,550	133,878	23,347
1978	249,457	77,034	149,493	22,930
1979	258,307	83,595	150,159	24,554
1980	284,168	98,237	166,564	19,367
1981	317,530	107,236	191,181	19,112
1982	353,871	115,314	217,647	20,910

1/ Data exclude Barbers Point NAS exchange and club through 1974 (sales of $12,700,000 in 1975 and $12,704,000 in 1976) and Coast Guard exchange and club through 1975 (sales of $975,000 in 1976).

Source follows next table.

Table 590.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1981 AND 1982

Type of facility	Locations		Annual sales ($1,000)	
	1981 1/	1982	1981 1/	1982
Total 2/	143	152	360,518	405,021
Commissaries	7	7	107,236	115,314
Exchanges	23	23	191,181	217,647
Clubs	37	36	19,112	20,910
Food service	45	51	16,067	17,812
Miscellaneous 2/ ...	31	35	26,921	33,338

1/ Revised from Data Book 1982, table 535.

2/ Year-to-year figures are not comparable because data for some outlets are not available for 1981.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1982 (Statistical Report 159, June 22, 1983).

Table 591.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1977

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,569	2,571,489
Type of operation:		
Merchant wholesalers	1,261	1,430,527
Manufacturers' sales branches and offices	166	902,959
Agents, brokers, and commission merchants	142	238,003
Kind of business:		
Motor vehicles and automotive parts and supplies	93	121,496
Furniture and home furnishings	53	45,388
Lumber and other construction materials	80	122,909
Sporting, recreational, photo, and hobby goods, toys and supplies	42	40,235
Metals and minerals, except petroleum	16	22,006
Electrical goods	100	182,752
Hardware, and plumbing and heating equipment and supplies	72	59,444
Machinery, equipment, and supplies	237	230,427
Miscellaneous durable goods	99	53,322
Paper and paper products	61	67,270
Drugs, drug proprietaries, and druggists' sundries	42	47,513
Apparel, piece goods, and notions	71	58,661
Groceries and related products	310	696,494
Farm-product raw materials	6	2,603
Chemicals and allied products	25	31,354
Petroleum and petroleum products	43	506,337
Beer, wines, and distilled alcoholic beverages	31	130,745
Miscellaneous nondurable goods	188	152,533

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1.

Table 592.-- SELECTED SERVICE INDUSTRIES, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Receipts ($1,000)
Selected service industries	8,023	1,276,163
Hotels, motels, trailering parks, and camps	240	548,829
Personal services	1,927	83,249
Business services	2,351	173,440
Automotive repair, services, and garages	864	164,276
Miscellaneous repair services	587	34,425
Amusement and recreation services, including motion pictures	961	87,670
Dental laboratories	52	4,452
Legal services	506	68,671
Engineering, architectural, and surveying services	535	111,151

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 1.

Table 593.-- MEMBERSHIP ORGANIZATIONS: 1977

[Data are shown only for establishments with payroll, and exclude religious membership organizations.]

Kind of activity or operation	Number of establishments	Expenses ($1,000)	Paid employees mid-March
Membership organizations, except religious	362	49,257	2,399
Business associations	56	8,015	319
Professional membership organizations	20	3,076	104
Labor unions and similar labor organizations	68	16,640	524
Civic, social, and fraternal associations	181	18,647	1,302
Political organizations	3	392	8
Membership organizations, n.e.c.	34	2,487	142

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 33.

Table 594.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1977

[For 1972 data, see 1977 edition, table 360, p. 309.]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
All establishments:				
Number	411	...	...	...
Receipts ($1,000)	75,702	...	...	...
Establishments with payroll:				
Number	312	175	80	57
Receipts ($1,000)	74,480	28,250	37,914	8,316
Payroll, entire year ($1,000)	29,232	11,213	14,245	3,774
Paid employees, mid-March	3,512	1,259	1,738	515
OAHU				
Establishments with payroll:				
Number	280	155	74	51
Receipts, total ($1,000)	67,357	24,917	35,911	6,529
Commissions 1/	28,794	24,175	1,478	(V)
Tour operations 2/	32,735	141	32,594	(V)
Other travel related services	5,211	407	1,492	(V)
All other receipts	617	194	347	(V)
Operating expenses, total ($1,000)	(V)	(V)	(V)	5,395

V Insufficient coverage.

1/ Includes commissions and other receipts from the retail sale of passenger transportation and lodging.

2/ Receipts consist of the difference between the cost of assembling tours and the price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, the difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, *1977 Census of Service Industries*, SC77-S-7, *Arrangement of Passenger Transportation* (March 1981).

Table 595.-- HOTEL AND MOTEL CHARACTERISTICS: 1977

[Data are shown only for establishments with payroll.]

Subject	Hotels, 25 guestrooms or more		Hotels, fewer than 25 guestrooms	Motels, tourist courts	Motor hotels
	State total	Oahu			
Establishments 1/	153	93	14	24	7
Guestrooms as of Dec. 31 2/	35,426	23,766	221	626	(D)
Receipts ($1,000):					
Receipts from customers, total	540,697	338,339	1,085	3,279	(D)
Guestroom rentals	326,858	213,947	1,044	2,509	(D)
Meals, nonalcoholic beverages	133,265	72,308	–	609	(D)
Alcoholic beverages	50,134	28,825	41	56	(D)
Packaged liquor, wine, beer 3/	1,067	1,103	–	15	(D)
Other merchandise	5,078	1,237	–	90	(D)
Other sources	24,295	20,919	–	–	(D)
Other rental, concession receipts	17,442	13,272	76	(V)	(D)
Payroll, entire year ($1,000)	159,233	98,607	318	843	(D)
Payroll, first quarter ($1,000)	39,199	24,583	79	204	(D)
Paid employees, week of March 12	21,504	13,886	63	153	(D)
Weighted average percent of occupancy	80.9	(NA)	(D)	(D)	(D)
Average rate per occupied room (dollars)	31	(NA)	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual companies.
(V) Insufficient coverage
(NA) Not available.

1/ Hotels, motels, tourist courts, and motor hotels in Hawaii (with or without payroll) numbered 236. Of the 198 with payroll, the principal class of customer was reported as commercial for 19, tourist for 165, group/convention for 9, and other or unknown for 5.

2/ Guestrooms in hotels in business at the end of the year numbered 35,647, including 35,443 for transient guests and 204 for residential guests.

3/ The Oahu total for larger hotels exceeds the Statewide total, probably because of the method for expanding data from partial returns.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Subject Series, Hotels, Motels, and Other Lodging Places, SC-77-S-2 (April 1981), tables 1, 2, 3, 5, 10, and 15.

Table 596.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1982

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor Islands	State total 3/	Waikiki	Neighbor Islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2
1980	55,700	34,173	21,527	69.3	71.7	64.1
1981 4/ .	57,239	33,480	23,759	68.2	73.9	59.8
1982	58,927	34,610	24,317	70.4	77.7	60.0

1/ Except 1967 (December) and 1968 (November). Includes condominium units in rental pools for transient occupancy.

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

4/ Occupancy rate for Neighbor Islands revised from Data Book 1982, table 541.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 597.-- VISITOR ACCOMMODATIONS, TOTAL AND CONDOMINIUM: 1970 TO 1983

[As of June.]

Year	All visitor accommodations 1/		Condominiums 2/	
	Properties 3/	Units 4/	Properties 5/	Units 6/
1970	278	27,519	...	...
1971	282	33,163	...	...
1972	278	35,945	...	...
1973	286	37,131	...	...
1974	286	39,222	...	...
1975	300	39,977	...	...
1976	313	42,811	...	...
1977	341	46,143	...	5,922
1978	362	48,034	...	7,178
1979	384	51,185	...	9,459
1980	393	55,571	...	11,781
1981	411	56,502	200	14,137
1982	427	59,357	208	14,182
1983	430	58,901	213	13,586

1/ Hotels, motels, apartment-hotels, and cottages, including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Statewide totals first reported in June 1970.

4/ For detailed data by counties, 1952 to 1983, see the Hawaii Visitors Bureau, *1982 Annual Research Report*, p. 31.

5/ First reported separately in June 1981.

6/ First reported separately in February 1977.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* (issued 3 times annually).

Table 598.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: FEBRUARY 1983

Geographic area	All accommodations 1/		Condominiums 2/	
	Properties	Units	Properties	Units
State total ...	426	58,765	208	13,413
Oahu	160	34,354	46	4,747
Waikiki 3/	127	30,108	36	3,957
Rest of Oahu	33	4,246	10	790
Other islands	266	24,411	162	8,666
Hawaii	71	7,469	37	1,769
Kauai	51	4,193	25	1,006
Maui	136	12,110	95	5,594
Molokai	7	628	5	297
Lanai	1	11	-	-

1/ Hotels, apartment hotels, motels, etc., including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 127 properties include 69 hotels (with 25,446 units), 36 condominiums (with 3,957 units), and 22 apartment hotels (with 705 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, February 1983.

Table 599.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1973 TO 1983

Year	Hotel units, June 1/	Hotel employment, annual average 2/		Hotel payrolls, annual 2/		
		Total	Per unit	Total ($1,000)	Per unit (dollars)	Per worker (dollars)
1973	37,131	18,857	0.51	107,525	2,896	5,702
1974	39,222	19,139	0.49	115,599	2,947	6,040
1975	39,977	19,885	0.50	128,659	3,218	6,470
1976	42,811	21,130	0.49	155,123	3,623	7,341
1977	46,143	22,313	0.48	175,602	3,806	7,870
1978	48,034	22,548	0.47	195,861	4,078	8,686
1979	51,185	23,735	0.46	218,954	4,278	9,225
1980	55,571	24,754	0.45	244,655	4,403	9,883
1981	56,502	24,626	0.44	264,433	4,680	10,738
1982	59,357	26,475	0.45	291,344	4,908	11,004
1983	58,901	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Includes condominium units in rental pools for transient occupancy.

2/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 600.-- HOTEL UNITS, EXISTING AND PLANNED, BY ISLANDS AND RESORT AREAS: 1982 AND 1983

Geographic area	Existing units, February		Units under construction or planned, Feb. 1983, by completion date		
	1982	1983	1983	1984	No date
State total	57,968	58,765	941	3	9,234
Oahu	33,492	34,354	456	3	5,450
Waikiki and Kahala	29,047	30,108	456	3	5,450
Ala Moana	1,669	1,643	-	-	-
Honolulu	44	67	-	-	500
Airport	695	698	-	-	-
Leeward	1,230	1,063	-	-	-
Windward	807	775	-	-	4,950
Hawaii	7,167	7,469	-	-	1,850
Hilo-Honokaa	1,762	1,648	-	-	-
Naalehu-Ka'u	41	45	-	-	-
Volcano	37	37	-	-	-
Waimea-Kohala	1,078	1,342	-	-	150
Kona	4,249	4,397	-	-	1,700
Maui	11,596	12,110	357	-	1,500
Wailuku-Kahului	449	445	-	-	400
Lahaina-Napili	7,256	7,805	357	-	-
Hana	87	88	-	-	-
Kula-Makawao	17	19	-	-	-
Kihei-Wailea	3,787	3,753	-	-	1,100
Kauai 1/	5,147	4,193	128	-	434
Lihue	847	771	-	-	-
Wailua-Kapaa	2,026	2,062	128	-	386
Hanalei	521	490	-	-	48
Poipu	1,721	845	-	-	-
Kalaheo	20	25	-	-	-
Kokee	12	-	-	-	-
Molokai	555	628	-	-	-
Lanai	11	11	-	-	-

1/ Decline resulted from Hurricane Iwa.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory for February 1982 and February 1983.

Table 601.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 TO 1982

Geographic area	1980	1981	1982
State total	69.3	68.2	70.4
Oahu	72.3	74.1	77.8
Waikiki	71.7	73.9	77.7
Hawaii	51.0	44.9	44.0
Hilo	34.4	35.3	37.7
Kailua-Kona	59.0	49.4	46.9
Maui	74.2	70.3	73.9
West Maui	76.1	73.7	78.0
Other	68.4	58.3	61.4
Kauai	69.6	62.7	57.5
South	52.5	46.2	44.2
East	75.1	68.5	63.4

Source: Hawaii Visitors Bureau, 1981 Annual Research Report and records, as reported by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 602.-- HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1981 AND 1982

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1981 1/	1982	1981 1/	1982	1981 1/	1982
State	68.11	70.44	49.87	51.78	25.77	26.44
Oahu	73.92	77.84	43.16	44.80	22.63	23.39
Waikiki:						
On beach	72.05	72.69	61.04	61.15	31.18	30.99
Off beach:						
With restaurant ...	73.48	80.60	34.07	35.77	17.47	18.62
Without restaurant.	75.95	80.09	27.30	28.69	13.86	14.49
Other Oahu	75.31	79.43	49.26	51.89	28.74	29.67
Hawaii	44.87	44.04	47.16	47.37	24.41	24.64
Hilo	35.27	37.68	30.53	30.01	16.42	16.46
Kona	49.45	46.93	52.81	53.70	26.99	27.42
Maui	70.30	73.87	73.44	75.02	37.12	35.82
West Maui	73.74	78.03	77.82	81.19	39.03	38.15
Other Maui	58.14	61.41	53.84	51.50	28.22	26.19
Kauai	62.68	57.47	56.06	58.48	27.42	28.84
East Kauai	68.47	63.40	54.67	55.65	27.49	28.07
South Kauai	46.23	44.21	61.90	67.53	27.16	31.07

1/ Revised from 1982 edition, table 546.

Source: Pannell Kerr Forster, Trends in the Hotel Industry Hawaii, December 1982.

Table 603.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1982

Year	Number of features filmed				Employment	
	Total	Feature films		Television specials and series 3/	Total	Direct only
		For theater viewing	For TV viewing			
1976	31	3	1	27	918	622
1977	63	4	5	54	1,265	856
1978	58	3	5	50	1,610	1,091
1979	54	6	8	40	2,543	1,723
1980 4/ .	58	6	2	50	1,551	1,051
1981 5/ .	54	2	1	51	1,244	843
1982	66	1	3	62	2,625	1,567

Year	Gross budgets 1/ (millions of dollars)			Expenditures in Hawaii 2/ (millions of dollars)	Tax revenues generated (millions of dollars)	Spending effect on economy (millions of dollars)
	Total	Feature films and TV specials and series	TV commercials and related advertising			
1976	26	20	6	11	1.01	25.0
1977	39	30	9	16	1.51	36.4
1978	45	36	9	22	2.04	50.0
1979	78.5	63.5	15.0	34.75	3.14	79.0
1980 4/ .	47.5	36.5	11.0	21.2	1.9	48.2
1981 5/ .	40.0	32.0	8.0	17.0	1.5	38.7
1982	50.0	37.6	12.4	31.6	2.98	71.9

1/ Includes post-production costs out of State.

2/ For feature films and television specials and series.

3/ Each program in a series counted separately.

4/ Activity affected by a prolonged strike of the Screen Actors Guild, which affected major productions during much of 1980, and changes in immigration regulation enforcement policies, which brought filming of foreign television commercials to a virtual halt.

5/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations initiated in 1980.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 604.-- NUMBER AND GROSS SALES OF LIQUOR LICENSEES, FOR OAHU: 1981 AND 1982

Class of licensee	Licenses in effect, June 30		Gross liquor sales of licensees, year ended June 30 ($1,000)	
	1981	1982	1981	1982
All categories	1,295	1,322	373,635	406,350
Cabarets	37	38	13,337	17,101
Clubs 1/	16	16	3,030	3,230
Dispensers 2/	702	705	123,733	133,192
Retailers 3/	480	499	90,818	95,151
Wholesalers	25	30	125,345	136,915
Manufacturers	4	4	1,101	1,576
Tour or cruise vessel ...	21	20	1,196	1,172
Hotel	8	9	15,075	18,014
Solicitor	2	1	-	-

1/ Private.
2/ Bars, restaurants, etc.
3/ Package goods stores, including supermarkets, drug stores, etc.

Source: City and County of Honolulu, Department of Finance, Liquor Commission, Fiftieth Annual Report of the Liquor Commission, 1981-1982, p. 12, and information provided February 3, 1982 and August 9, 1983.

Table 605.-- LIQUOR AND TOBACCO TAX BASES: 1977 TO 1982

[Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1977	86,229	86,229	-	26,077
1978	93,560	93,560	-	28,082
1979	111,588	88,859	22,729	31,020
1980	122,848	42,691	80,157	33,275
1981	132,513	49,182	83,332	35,151
1982	149,859	34,865	114,994	37,338

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 606.-- APPARENT CONSUMPTION OF DISTILLED SPIRITS, TOTAL AND PER CAPITA: 1972 TO 1981

Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)	Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)
1972	1,481	1.70	1977	2,190	2.21
1973	1,809	2.01	1978	2,160	2.14
1974	1,947	2.11	1979	2,175	2.09
1975	1,970	2.09	1980	2,175	2.06
1976	2,024	2.09	1981	2,165	2.04

1/ Based on estimated de facto population (DPED Statistical Report 147, table 2, and DPED Statistical Memorandum 83-4, table 2).

Source: Distilled Spirits Council of the United States, Annual Statistical Review 1981, Distilled Spirits Industry (1982), p. 40.

Table 607.-- ALCOHOL BEVERAGE APPARENT CONSUMPTION AND PUBLIC REVENUES, BY TYPE OF BEVERAGE: 1976 TO 1981

Year	Apparent consumption (1,000 wine gallons)			Revenues from State and local collections 1/ ($1,000)			
	Distilled spirits	Wine	Beer	Total	Distilled spirits	Wine	Beer
1976 ..	2,024	1,811	22,320	22,083	9,297	1,590	11,196
1977 ..	2,095	1,901	24,490	24,775	10,076	1,786	12,913
1978 ..	2,160	2,493	21,390	26,878	1,558	2,661	12,660
1979 ..	2,200	2,427	25,110	25,921	10,135	3,266	12,520
1980 2/	2,175	2,685	27,621	14,138	5,081	1,844	7,149
1981 ..	2,165	2,628	29,633	15,367	5,240	1,936	8,190

1/ Major part of revenues for 1980 and 1981 held in escrow pending a court decision because liquor law has been challenged by some dealers. Escrow revenues not included but subject to future collection.

2/ Revenue total (but not detail) revised from Data Book 1982, table 551.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual).

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $244 million in 1972 to $1.7 billion in 1982. Exports to foreign countries amounted to only $60 million in 1972, but by 1982 reached $219 million. (These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $887 million in 1968 to $2.2 billion in 1978, the most recent year available. Merchandise exported to the Mainland rose from $329 million in 1968 to $817 million in 1974, then slipped back to $495 million in 1978.

Among the foreign nations, Hawaii's leading trading partners in 1982 were Indonesia for imports and Japan for exports. Imports from Indonesia amounted to $586 million, or 34 percent of the total, while exports to Japan reached $40 million or 18 percent of all foreign exports. About 39 percent of all imports for consumption were petroleum and natural gas products and integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $52.5 million in fiscal 1982. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.76 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 263 establishments in 1980, and employed 11,738 persons with an annual payroll of $157 million. Foreign investments in Hawaii exceeded $635 million in 1982.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade and foreign-owned firms), the Bank of Hawaii (for discontinued series on interstate trade and balance of payments), Foreign Trade Zone No. 9 and Subzone No. 9A, and the Hawaii International Services Agency. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1982-83. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 608.-- INTERSTATE TRADE:
1968 TO 1978

[In millions of dollars. Compilation of these statistics was discontinued after 1978.]

Year	Imports	Exports
1968	886.7	329.1
1969	1,029.1	321.7
1970	1,194.1	339.8
1971	1,201.4	365.7
1972	1,220.0	350.2
1973	1,563.5	381.8
1974	1,866.2	817.0
1975	1,773.9	522.4
1976	1,756.3	415.2
1977	1,982.7	471.0
1978	2,185.5	494.7

Source: Bank of Hawaii, Hawaii 1982, Annual Economic Review (1982), p. 44. Compiled from reports of major shippers and carriers, for commodities moving between Hawaii and the Mainland.

Table 609.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1972 TO 1982

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland.]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7
1982	1,732.7	1,509.4	219.0

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (through 1973) and Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 610.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1982

[See headnote to preceding table.]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,732.7	(NA)
Vessel	1,036.1	6,554.6
Air	677.8	16.6
Imports for consumption, all methods 3/	1,509.4	(NA)
Exports, all methods 2/	219.0	(NA)
Vessel	113.0	1,053.5
Air	67.9	16.7

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1982, tables E-4 and I-11.

Table 611.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1979 TO 1982

Year	Pounds	Value (dollars)
1979	730,375	1,174,513
1980	1,654,953	2,059,943
1981	1,156,260	1,571,283
1982	871,304	1,210,675

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations).

Table 612.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1981 AND 1982

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts.]

Region	Imports for consumption		Exports of domestic merchandise	
	1981	1982	1981	1982
All regions	1,982,226,167	1,732,729,184	237,683,704	218,969,258
North America 1/	24,910,422	21,414,332	18,029,734	10,537,643
Latin America 2/	117,204,950	22,686,281	2,914,659	164,808
Europe	94,562,411	108,182,005	5,840,588	10,600,805
Asia	1,696,807,278	1,534,210,923	115,321,605	116,662,141
Australia and Oceania ...	47,858,492	45,661,243	95,531,748	80,853,800
Africa	882,614	574,400	45,370	150,061

1/ Excluding Latin America.

2/ Includes Central and South America, Bermuda, and the Caribbean.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade (annual).

Table 613.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1982

[See headnote to preceding table.]

Country 1/	Imports for consumption		Exports of domestic merchandise
	Total	Excluding petroleum and natural gas (and their products), and integrated circuits	
All countries	1,732,729,184	1,055,858,008	218,969,258
Indonesia	586,170,380	755,727	19,645,079
Singapore	309,687,729	6,813,332	18,296,561
Japan	240,133,362	237,513,861	39,927,906
Malaysia	122,462,042	3,773,416	2,086,255
Taiwan	97,914,286	43,950,448	12,196,396
Philippines	59,713,390	9,741,988	4,432,973
Australia	24,515,626	22,830,957	26,621,286
China, People's Republic of .	37,732,623	12,674,582	72,589
Hong Kong	26,718,355	26,713,947	8,381,067
France	32,307,838	32,307,838	-
Canada	21,414,332	21,414,332	10,537,643
Brunei	29,630,422	-	411,696
New Zealand	15,495,768	15,495,768	11,889,203
Korea, Republic of	15,685,013	15,685,013	9,927,120
Trust Terr. of Pacific I. ...	1,704,493	1,704,493	11,368,756

1/ Shown separately for the 10 leading countries in each category, listed in order of total foreign trade through the District.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade, A Statistical Digest, 1982, International Business Series No. 31 (August 1983).

Table 614.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COMMODITY CLASSIFICATION: 1982

[See headnote to table 612.]

Commodity classification	Imports for consumption	Exports of domestic mdse.
Total	1,732,729,184	218,969,258
Animal and vegetable products	89,632,867	26,881,432
Wood and paper; printed matter	22,925,734	3,200,083
Textile fibers and products	26,534,468	1,192,374
Chemicals and related products	690,998,162	83,048,313
Nonmetallic minerals and products .	17,892,210	550,764
Metals, machinery and transportation equipment	736,629,364	81,300,688
Specified, miscellaneous products .	128,836,920	22,016,673
Special classification provisions .	18,259,602	778,931
Temporary provisions	1,019,857	-

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade, A Statistical Digest, 1982 (International Business Series No. 31, August 1983).

Table 615.-- FOREIGN-TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1982

[Years ended June 30 through 1976 and September 30 thereafter.]

Fiscal years	Foreign-Trade Zone No. 9 1/					
	Firms using zone	User employment at zone 2/	Value of mdse. 3/ ($1,000)		Revenue 4/ (dollars)	Expenditures 4/ (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932

Fiscal years	Subzone No. 9A 5/				
	User employment at subzone 2/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437

Continued on next page.

Table 615.-- FOREIGN-TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1982 -- Con.

NA Not available.
1/ Began operation June 15, 1966.
2/ For firms occupying facilities on a continuing basis only.
3/ Data for 1969-1980 revised from 1981 edition, table 555.
4/ Data for 1972-1979 revised from 1980 edition, table 488.
5/ Began operation April 7, 1972.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 616.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1975 AND 1980

Kind of establishment and year	Firms	Establishments	Employment	Payroll annual ($1,000)
All foreign-owned firms:				
1975	39	123	7,111	57,340
1980	91	263	11,738	157,084
Manufacturing:				
1975	...	8	560	8,062
1980	...	14	723	14,055
Nonmanufacturing:				
1975	...	115	6,551	49,278
1980	...	249	11,015	143,029

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1975-1976, Series FOF, No. 1 (November 1978), and Selected Characteristics of Foreign-Owned U.S. Firms: 1980, Series FOF, No. 4 (June 1982).

Table 617.-- EMPLOYMENT RELATED TO MANUFACTURED EXPORTS: 1977, 1980 AND 1981

Subject	1977	1980	1981
Employment related to manufactured exports, total	2,700	6,100	6,400
Manufacturing industries	700	1,100	1,200
Nonmanufacturing industries	2,000	5,000	5,200
Employment related to manufactured exports as percent of --			
Total civilian employment 1/	0.7	1.7	1.5
Total private sector employment 2/	1.0	2.0	1.9

1/ The U.S. average in 1981 was 4.7.

2/ The U.S. average in 1981 was 5.6.

Source: U.S. Bureau of the Census, *1977 Census of Manufactures, Origin of Exports of Manufactured Products*, MC77-SR-12 (June 1981), table 2a, and *1981 Annual Survey of Manufactures, Origin of Exports of Manufactured Products (Including revised 1980 data)*, M81(AS)-5 (May 1983), pp. 14-15.

Table 618.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 1982

Subject	Amount
Parcels owned by foreigners	51
Individuals	23
Organizations	28
Acres owned by foreigners	56,374
Percent of all privately owned agricultural land 1/	2.8
Individuals	7,301
Organizations	49,073
Value of foreign-owned agricultural land ($1,000):	
At time of acquisition	40,574
Adjusted current value	46,072

1/ The percent for Hawaii ranked third among the 50 States, exceeded only by Maine (14.1 percent) and South Carolina (3.2) and equaled by Georgia, and well above the national percentage (1.0).

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1982* (Staff Report AGES 830310, April 1983), pp. 8, 11, and 15.

Table 619.-- FOREIGN INVESTMENTS IN HAWAII: 1959 TO 1983

[In thousands of dollars. Estimates based on partial reporting.]

Subject	Amount
Cumulative total 1/	1,884,686
Year:	
1970 and earlier years	50,150
1971	6,000
1972	75,950
1973	154,100
1974	162,250
1975	22,100
1976	63,800
1977	31,900
1978	81,000
1979	307,470
1980	124,485
1981	58,000
1982	635,980
1983, to September	111,501
Country of investor:	
Australia	30,600
Bermuda	15,000
Canada	158,220
France	15,900
Hong Kong	200,550
Japan	1,250,680
Korea, South	9,500
Netherlands Antilles	18,435
Taiwan	13,500
United Kingdom	170,801
Vanuatu	1,500
Type of investment:	
Agriculture	55,100
Golf courses	29,600
Hotels 2/	475,900
Manufacturing	6,230
Real estate	1,130,205
Restaurants	8,450
Retailing	59,950
Science and education	51,001
Miscellaneous	68,250

Continued on next page.

Table 619.-- FOREIGN INVESTMENTS IN HAWAII: 1959 TO 1983 -- Con.

1/ Excluding $317.9 million to be completed after September 1983.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency (HISA), A Listing of Foreign Investment in Hawaii (International Business Series, No. 33, October 1983).

Table 620.-- BALANCE OF PAYMENTS: 1975 TO 1978

[In millions of dollars. Excludes capital movement items such as the flow of investment funds, deposits of financial institutions, loans and repayment of loans, securities, and currency. Compilation of these statistics was discontinued after 1978.]

Category	1975	1976	1977	1978
EARNINGS BY HAWAII FROM OVERSEAS				
Total earnings	4,351	4,632	5,381	6,048
Commodity exports	616	481	569	632
Federal expenditures	1,979	2,186	2,381	2,559
Services performed	1,543	1,711	2,141	2,515
Return on overseas investments	213	254	290	342
EXPENDITURES BY HAWAII TO OVERSEAS				
Total expenditures	4,864	4,961	5,635	6,267
Commodity imports	2,558	2,671	3,025	3,370
Payments to Federal government	1,215	1,118	1,301	1,425
Services performed	779	827	929	1,041
Return on investments in Hawaii	312	345	380	431

Source: Bank of Hawaii, Hawaii 1982, Annual Economic Review (1982), p. 44. Based on data from a variety of private and governmental sources, including published reports, interviews, answers to letters, and related procedures.

BIBLIOGRAPHY

This volume is the seventeenth in a series published by the Hawaii State Department of Planning and Eçonomic Development and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: *Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki* (1970), *Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii* (1971), and *Inventory of Hawaii Planning Information* (1973). The first two are reports of statistical symposia. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the *Data Book* are shown only for recent years, earlier figures in many cases can be found in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for $30.00.

Another useful publication is *Statistical Sources in Hawaii: Reference Guide to Materials Available at the Hawaii State Library*, compiled by Masae Gotanda and published by the Office of Library Services of the Hawaii State Department of Education in November 1978.

Privately published works of general statistical reference include *Hawaii Facts and Figures* and *All About Business in Hawaii*. *Hawaii Facts and Figures* is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) almost fifty years ago. The most recent edition appeared early in 1983, with statistics through 1982; copies are available from the Chamber for $2.00. *All About Business in Hawaii, 1983* is the 11th in an annual series published by Crossroads Press, Inc. The current edition costs $3.50.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are *Hawaii 1983*, published by the Bank of Hawaii in the fall of 1983, and *Hawaii in 1982*, issued by the First Hawaiian Bank as a supplement to its bimonthly *Economic Indicators* for March-April 1983. Greater detail appears in *Hawaii's Economic Indicators: Sources, Definitions, and Trends*, published by the First Hawaiian Bank in March 1980.

The County of Hawaii, Department of Research and Development, has published its own *County of Hawaii Data Book 1980*, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is available for $7.50 (postpaid, $10.00).

A similar report for Kauai, *1982 Kauai Statistical Review: An Annual Report of the County's Economic Indicators*, is issued by the Kauai Office of Economic Development. The most recent edition, presenting data for 1982, was released in 1983 and contains 22 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 103rd, dated 1982-83; copies are available for $15.00 (cloth) or $11.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book, 1982*, also available from GPO, costs $15.00. The *County and City Data Book*, most recently issued for 1977, is sold by the same agency for $21.00. All three volumes are (or soon will be) on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1982

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

INDEX

Subject ... Page Numbers

- Abortions ... 65, 66, 74
- Accidents
  - Aircraft ... 76
  - Beach ... 233
  - Boating or shipping ... 76, 501
  - Deaths ... 75, 76, 233, 331, 414, 479, 501
  - Industrial ... 331, 332
  - Traffic ... 76, 479
- Adoptions ... 272, 283
- Age of population ... 35-38, 49
- Agreements of sale ... 571, 572
- Agriculture
  - Acreage ... 185-191, 195, 196, 510-516, 520, 524-527, 590
  - Aquaculture ... 509, 526, 527
  - Crop sales ... 509, 512-516, 520, 521
  - Employment, jobcounts, and payrolls ... 311-315, 322, 417, 418, 510, 511
  - Farm population ... 38
  - Farms ... 509-515, 520, 521, 526
  - Fertilizer ... 525
  - Flowers and nursery products ... 509, 514, 515, 520, 521, 524
  - Foreign investment ... 633-635
  - Injuries, illnesses, and lost workdays ... 332
  - Livestock and livestock sales ... 509, 512, 513, 517-519, 524, 525
  - Market supply ... 522
  - Pineapple (See also Pineapple) ... 512-515, 524, 589
  - Production value ... 509-516, 518-521, 526, 527
  - Production volume ... 514-516, 518, 519, 521, 522, 526, 527
  - Productivity ratings ... 523

Subject ..... Page Numbers

Agriculture - Continued
- Soil loss 523
- Sugarcane (See also Sugar) 512-515, 524, 590
- Wages and salaries 322
- Water use 163

Air quality 167-169

Aircraft, airlines and airports. See Transportation, Air

Ala Moana Center 603, 604

Alcohol 621-623

Alien population 48, 57-62

Altitudes, elevations, and mountains 153-155, 159, 160

Ancestry 42

Aquaculture 509, 526, 527

Aquarium, Waikiki 222

Area, land and water. See Geography

Armed forces
- Active duty 14, 37, 39, 45, 55, 56, 289-294
- Age 38
- Airports and aircraft operations 485, 486
- Arrivals as intended residents 56
- Births to military families 44, 55, 67-72
- Civilian employment and jobcounts 294, 295
- Components of change in population 55
- Deaths 55, 67, 68
- Dependents 14, 37, 39, 44, 45, 55, 56, 62, 64, 289-292
- Dependents in public schools 108
- Ethnicity 39
- Expenditures 265, 266, 289, 296, 297, 338, 341, 342
- Families 291, 292
- Housing 292, 293
- Income 350
- Migration 56, 61-64
- National Guard 293
- Personnel 294, 295
- Place of birth 44
- Residency, years of 45
- Residents on active duty 55, 56, 61, 62, 290
- Retail facilities 606, 607
- Sex 37

Subject — Page Numbers

- Armed forces – Continued
  - Veterans and retirees 289, 298, 300
  - Veterans in civil life 299
- Arrests 121, 123, 125-127, 130, 131
- Art galleries 224
- Arts, performing 220, 221, 224
- Attorneys and legal services 132, 133
- Automobiles. See Transportation, Ground
- Balance of payments 635
- Bankruptcy 134
- Banks 400-402, 405, 573
- Baseball 242, 243
- Basketball 242, 243
- Beaches 165, 166, 171, 198, 226, 227, 233, 239
- Bibliography 636-638
- Bicycles 472
- Bird counts, Audubon Society 182
- Births
  - Armed forces and dependents 44, 55, 67-72
  - Characteristics of infants and parents 70-72
  - Congenital malformations 70
  - Fertility 65, 69-72
  - Illegitimate 66, 70
  - Mixed and unmixed 71, 72
  - Names, most common 73
  - Place of birth 44
  - Premature 70
  - Rates 66-72
- Boats and boating
  - Accidents and deaths 76, 501
  - Commercial fishing 532-535
  - Fuel consumption 451
  - Moorages and lanes 227, 239
  - Participation 228
  - Registration 499, 500

Subject .... Page Numbers

Bridges, highway 465

Broadcasting 425, 432-434

Budgets
  Family 360, 361, 372-374
  Retired couple 372, 375, 376

Burials. See Deaths, Disposition of remains

Buses and bus service 468, 469, 471, 480-482

Business (See also Corporations)
  Establishments, employees, and payroll 415-419
  Failures 424
  Foreign-owned 411, 420
  Partnerships 420
  Proprietorships 421
  Registration 400, 420
  Small businesses 419
  Women-owned 423

Cable television 433

Campaign expenditures 387, 388

Care homes 85

Cargo. See Transportation

Catastrophes 76, 162, 180

Census tracts
  Households 27-33
  Land area 27-33
  Maps 24-26
  Population 27-33

Channels between islands 148

Child abuse and neglect 132

Churches 53, 54, 580, 581

Citizenship 46, 58

City, town, and village areas and populations 20-23

Climatic data 171-181

Coastline 149, 159

Colleges and universities 103, 109-113, 120, 221

Subject .... Page Numbers

Commissaries and exchanges 606, 607

Communications
  Employment, jobcounts, and payrolls 311-315, 322
  Newspapers 425, 435, 437
  Periodicals 436
  Postal service 425-427, 437
  Radio 425, 432-434
  Telegraph service 428, 437
  Telephone service 425, 428-431, 438
  Television 425, 432-434
  University Press of Hawaii 436
  Wages and salaries 322, 325, 326

Commuting 483

Condominiums
  Conversions 551
  Inventory of units 550, 559, 560
  Prices 567-569
  Registered projects 549
  Visitor use 207, 615

Congressional districts 50

Constitutional convention 378

Construction
  Building permits 542-544, 547-549
  Business units 417, 418
  Cost indexes 542, 552
  Employment, jobcounts, and payrolls 311-315, 322, 417, 418
  Government contracts 542, 545, 546
  Hotel units 617
  Housing 542, 544, 547-552, 562, 563, 574
  Housing unit demolitions 548
  Injuries, illnesses, and lost workdays 332
  Tallest structures 577-579
  Tax base 253
  Wages and salaries 322, 325-327, 552

Consumer price index 247, 360-369

Conventions 210

Corporations
  Foreign-owned 420
  Hawaii companies, selected major 407, 422, 423
  Hawaii shareholders 406, 407
  Profits 343
  Registration 420
  Revenues 422, 423
  Taxable and nontaxable receipts 421

Subject	Page Numbers
Correctional facilities	121, 122, 130, 131, 140
Cost of living. See Budgets and Consumer price index	
Cost of living allowance (COLA), Federal employees	361, 377
County councils, composition	387, 388, 395
Courts	121, 122, 130, 131 133-139
Credit unions	405
Crime and criminals	
Arrests	121, 123, 125-127, 130, 131
Attorneys and legal services	121, 132, 133
Average sentence	141
Child abuse and neglect	132
Correctional facilities	122, 130, 131, 140
Criminal justice system operating statistics	121, 122
Executions	121, 143
Judiciary	121, 122, 130, 131, 133-139
Marijuana confiscation	129
Offenses	121, 123-127, 130, 132, 135-137
Paroles and pardons	142
Police	121, 122, 130
Stolen property	121, 127, 128
White collar	129
Crops. See Agriculture	
Cultural attractions	198, 220-224
Customs District, Honolulu	626-630
Cyclones	181
Dams	162
Data Book printing history	638
Deaths	
Accidents	75, 76, 233, 331, 414, 479, 501
Aircraft	76
Armed forces and dependents	55, 67, 68
Boating and shipping	76, 501

Subject — Page Numbers

- Deaths - Continued
  - Cause ... 75, 76, 81
  - Centenarian ... 38
  - Characteristics of resident deaths ... 65, 74
  - Diseases ... 75, 81
  - Disposition of remains ... 76
  - Fire ... 414
  - Homicide ... 75
  - Hurricanes, major ... 180
  - Industrial ... 331
  - Infant and fetal ... 66, 74
  - Rates ... 65-68, 74-76
  - Traffic ... 76, 479
  - Tsunamis ... 162
- Deeds filed ... 571
- Defense. _See_ Armed forces
- Dental care ... 86, 92
- Dentists ... 86, 88
- Department stores ... 593, 601, 605
- Diesel oil ... 451, 452, 456
- Disability ... 276, 279, 330
- Diseases ... 65, 75, 78, 81
- Disposable personal income ... 340, 344
- Distances, great circle ... 145-147, 494
- Divorces ... 65, 93, 94
- Doctors ... 88
- Dog licenses ... 243
- Drivers licenses ... 474
- Drug stores ... 89
- Drug use ... 82, 83
- Earthquakes ... 161
- Eating and drinking places ... 602, 634, 635
- Education
  - Achievement test results ... 116
  - Colleges and universities ... 103, 109-113, 120

Subject .... Page Numbers

Education - Continued
  Cost per pupil 107
  Days lost due to illness or injury 80
  Days of school 107
  Enrollment 103, 104-106, 108, 109, 111, 113
  Enrollment by age 114
  Expenditures 103, 107, 251, 252
  Federal support 112, 462
  Federally-connected pupils 108
  Graduates 103, 104-106, 110, 111
  Libraries 103, 117-120
  Nutrition of students 100
  Research and development expenditures 462
  Schools 103, 104-106, 112, 113
  Sports 242, 243
  Teachers 104-107
  University of Hawaii 109, 110, 112, 120
  Years completed 113, 115

Elected officials 378, 379, 389-395

Elections 378-384, 386-394

Electricity. *See* Energy

Elevators, escalators, and similar facilities 576

Employment and labor force
  Age 309
  Civilians in military 294, 295
  Class of worker 314, 315
  Disability 276, 279, 330
  Employers 320-322
  Employment 302-305, 315-322, 415-419
  Ethnicity 307-309
  Government 269
  Industrial accidents, deaths, and insurance 331, 332
  Industries 309, 311-315, 322, 325, 326
  Interstate movement of job-seekers 329
  Jobcounts 301, 310-313
  Labor force 302-305, 307
  Labor turnover rates in manufacturing 324
  Labor unions and employee associations 333, 334, 610
  Minimum wage 328
  Occupations 309, 316, 317
  Residence, place of work 318, 319
  Sex 302, 303, 308, 309, 316

Subject ... Page Numbers

Employment and labor force - Continued
- Strikes ... 311-313, 335, 336, 591
- Unemployment ... 302-304, 306, 309
- Unemployment insurance ... 282, 320-322
- Wages and salaries ... 107, 320-323, 325-328
- Workdays lost due to illness or injury ... 80, 332

Endangered and extinct plants ... 183

Energy
- Boilers and pressure vessels ... 457
- Bunker oil ... 457
- Consumer price index ... 364-369
- Consumption ... 439-443
- Diesel oil ... 451, 452, 456
- Electricity service and usage ... 439-441, 443-445, 448-450, 458, 459
- Gas ... 439, 446, 447, 449, 450
- Gasoline service stations ... 456
- Gasoline usage and price ... 355, 451, 454-456
- Geothermal ... 440, 441
- Hydroelectric ... 163, 440, 441
- Liquid fuels usage ... 439, 441, 443, 451-453, 456, 459, 476, 477
- Manufacturing establishments ... 459, 460
- Natural gas ... 440, 441, 459
- Petroleum ... 440, 441, 443
- Solar water heating ... 460
- Sugar mills ... 458
- Utility rates ... 444-448, 450
- Water use, hydroelectric and thermoelectric ... 163
- Wood and waste ... 440, 441, 531

Environment. _See_ Geography

Erosion ... 523

Ethnicity
- Armed forces and dependents ... 39
- Births of mixed race ... 70
- Employed civilians ... 308
- Geographical location ... 40
- Heights and weights ... 97
- Labor force ... 307
- Legislature ... 396, 397
- Marriages, divorces ... 93-95
- Population ... 39-41
- Unemployed ... 309
- Voters ... 380, 382, 385

Executions. _See_ Crime and criminals, Executions

Subject — Page Numbers

Exports, 338, 341, 342, 507, 508, 624-633

Failures, industrial and commercial, 424

Family
  - Adoptions, 283
  - Budgets, 361, 372-374
  - Characteristics, 51, 52
  - Expenditures, 90, 337, 355-357
  - Income, 247, 348, 350-352, 354
  - Military, 291, 292
  - Poverty level, 351-354
  - Tax burden, 247
  - Visitor income, 209
  - Workers in families, 303

Farms. *See* Agriculture

Fertility, 49, 69, 70

Financial institutions, 400-405, 573

Fire
  - Alarms, assistance, deaths, and losses, 233, 414
  - Forest, 530

Fireworks imported, 627

Fishery conservation zone, 155

Fishing
  - Commercial operations, 528, 532-535
  - Recreational, 228, 234-236
  - Surveys, fish, 536, 537

Flowers and nursery products, 509, 514, 515, 520, 521, 524

Food (*See also* Agriculture)
  - Budgets, family, 373, 374
  - Budgets, retired couple, 375, 376
  - Consumer price index, 364-369
  - Personal consumption expenditures, 341, 342, 355
  - Retail prices, 370, 371
  - Retail stores, 598-600, 602, 605
  - Wholesale establishments, 608

Food stamps, 272, 277

Football, 242, 243

Foreclosures, 572

Subject ... Page Numbers

Foreign investment in Hawaii ... 420, 624, 632-635

Foreign trade ... 457, 507, 508, 624-632

Foreign Trade Zone ... 624, 631, 632

Forest
- Acreage ... 528-530
- Fires ... 530
- Products ... 531
- Timberland ... 530

Foundations ... 284

Fuels. *See* Energy

Gardens, botanical and zoological ... 224

Gas utility ... 439, 446, 447, 449, 450

Gasoline ... 355, 451, 454-456

Geography
- Area, census tracts ... 27-33
- Area, counties and islands ... 150, 152
- Area, islands, cities, towns, and villages ... 20-23
- Channels between islands ... 148
- Coastline ... 149, 159
- Dams ... 162
- Distances, great circle ... 145-147
- Earthquakes ... 161
- Ethnicity ... 40, 41
- Fishery conservation zone ... 155
- Islands, Hawaiian archipelago ... 152
- Lakes and reservoirs ... 158
- Miscellaneous geographical statistics ... 144, 159
- Mountains, altitudes, and elevations ... 153-155, 159, 160, 172, 173
- Pollution, water, air, and noise ... 144, 165-171
- Sea cliffs ... 159
- Shoreline ... 149, 239
- Slope of land ... 159
- Streams ... 156
- Tsunamis (seismic sea waves) ... 162
- Volcanic eruptions ... 160
- Water area, inland ... 150-152
- Water use ... 163, 164
- Waterfalls ... 157
- Weather ... 144, 171-181

Golf and golf courses ... 227, 228, 234, 238

Subject — Page Numbers

Government (See also Elected officials and Elections)
  County
    Bonded debt 267
    Employment jobcounts, and payroll 269, 311-313, 315, 322
    Operating expenditures 244, 251, 252
    Real property valuations 254-258
    Tax collections and other revenues 244-246, 251, 252, 256
    Wages and salaries 322, 323
  Federal (See also Armed forces)
    Adjusted gross income on tax returns 259, 261, 262
    Aid to State 249, 265, 266
    Employment, jobcounts, and payroll 269, 311-313, 315, 322
    Expenditures 265, 266, 289, 296, 297, 338, 341, 342
    Internal revenue service characteristics 260
    Research and development obligations 461
    Tax collections 244-247, 262
    Wages and salaries 322, 323
  State
    Adjusted gross income on tax returns 263-264
    Bonded debt 244, 267, 268
    Employment, jobcounts, and payrolls 269, 270, 311-313, 315, 322
    General excise and use tax 253
    Operating expenditures 244, 250
    Real property valuations 254-257
    Retirement system 283
    Salary schedules 271
    Tax collections and other revenues 244-249, 253, 264,
    Wages and salaries 248, 322, 323
  Tax burden and income 248
  Tax burden, four-person family 247

Gross state product 339, 341-344

Hansen's disease 81

Harbors. See Transportation, Water

Hawaii Housing Authority 561

Hawaii Medical Services Association 413

Hawaii Visitors Bureau 216

Hawaiian Affairs, Office of 387, 394

Hawaiian Home Lands 196, 197

Health
  Accidents. See Accidents
  Acute conditions 78, 80

Subject — Page Numbers

- Health - Continued
  - Births. See Births
  - Chronic conditions 79, 80
  - Consumer price index 364-369
  - Deaths. See Deaths
  - Dental care 65, 92
  - Diseases 65, 75, 78, 81
  - Drug stores, pharmacists, and prescriptions 89
  - Drug use 82, 83
  - Expenditures for health care 90, 91, 341, 342, 355, 373-376
  - Facilities 65, 84-88
  - Hansen's disease 81
  - Health and medical care personnel 65, 88, 89
  - Health service establishments 86
  - Heights and weights 96-99
  - Insurance 90, 400, 410, 412, 413
  - Leprosy 81
  - Life expectancy 77
  - Limitation of activity 80
  - Mental health 79, 87, 88
  - Nutrition 100-102
  - Pollution, water, air, and noise 165-171
  - Work or school days lost 80, 332

- Heights and weights of population 96-99

- Highways and streets. See Transportation, Ground

- Hospitals and health care facilities 65, 84-88

- Hotels
  - Employment, jobcounts, and payrolls 311-313, 315, 322, 612, 616
  - Establishments 612
  - Foreign investment 634, 635
  - Occupancy rates 612, 613, 618, 619
  - Receipts 612
  - Room rates 612, 619
  - Rooms 612-619
  - Tallest 577, 578
  - Tax base 253, 554
  - Wages and salaries 322, 325, 326

- Households (See also Family)
  - Census tracts 27-33
  - Characteristics 49-51
  - Income 347-349
  - Mobility of household heads 565, 566
  - Nutrition 102
  - Personal consumption expenditures 341, 342
  - Television 434
  - Vehicles available 472

Subject — Page Numbers

Housing (See also Condominiums)
  Budgets, family ... 373, 374
  Budgets, retired couple ... 375, 376
  Characteristics ... 558-560, 574, 575
  Construction ... 542, 544, 547-552, 562, 563
  Consumer price index ... 364-369
  Demolitions ... 548
  Fee simple land ... 555, 557
  Government ... 292, 293, 555, 557, 561
  Hawaii Housing Authority ... 561
  Homeownership ... 555, 557-560
  Leased land ... 555, 557
  Military ... 292, 293
  Personal consumption expenditures ... 341, 342, 355
  Prices and values ... 549, 560, 567-569, 572, 574, 575
  Renter occupied ... 550, 554, 555, 557-561
  Solar water heating ... 460
  Tenure ... 555, 557, 559
  Turnover ... 558, 565, 566
  Units, single and multi-family ... 547, 549, 550, 552, 560, 563
  Units, total ... 186, 555-557, 559, 560, 562, 563
  Vacancy ... 449, 559, 560, 562-564

Humidity ... 175, 177

Hunting and hunting licenses ... 226, 228, 234-237

Hurricanes ... 180

Immigration ... 46, 57-62

Imports ... 341, 342, 507, 508, 625-632

Income
  Adjusted gross income on tax returns ... 259, 261-264
  Disposable personal ... 340, 344
  Export industries ... 337, 338
  Families ... 247, 347, 348, 350-352, 354-357
  Gross state product ... 339, 341-344
  Households ... 347-349
  Male and female ... 347
  Per capita ... 337, 339, 344, 346, 349
  Personal ... 337, 340, 344-346
  Poverty levels ... 351-354
  Unrelated individuals ... 347, 349-352
  Visitors ... 209
  Wealthholders ... 337, 358, 359

Subject — Page Numbers

Industrial loan licensees 401, 404, 573

Industrial parks and areas 586

Industries. See Employment and labor force

Insurance
  Business transacted in Hawaii 400, 408-413, 573
  Disability 276, 279
  Employment 314
  Fire 410, 414
  Health 90, 400, 410, 412, 413
  Industrial accidents 331
  Life 409, 410
  Unemployment 282

Internal Revenue Service characteristics 260

Islands
  Population 16, 27-33

Jails 131, 140,

Jobcounts. See Employment and labor force

Judiciary 121, 122, 130, 131, 133-139

Kaiser Foundation Health Plan 413

Labor. See Employment and labor force

Lakes 158

Land and land use (See also Geography)
  Foreign investment 633-635
  Hawaiian Home Lands 196, 197
  Land area, acreage 185, 187-196
  Ownership 184, 192-197, 633, 635
  Parcels 188
  Productivity 523
  Property damage, hurricane 180
  Real property valuations 247, 254-257
  Soil loss 523
  Use 185-191, 195-197, 524, 525
  Use districts 190, 191
  Value of land transfers 571, 572, 574

Law enforcement. See Crime and criminals

Legislative bills and resolutions 399

Subject .... Page Numbers

Legislative sessions 398

Legislature, composition 378, 395-398

Leprosy 81

Libraries 103, 117-120

Life expectancy 77

Liquor sales, licenses, and consumption 621-623

Livestock and livestock sales 509, 512, 513, 517-519, 524, 525

Manufacturing
  Capital expenditures 583, 585
  Cost of materials 583, 585
  Employment, jobcounts, and payrolls 311-315, 322, 417, 418, 583-585, 590, 591, 632, 633
  Energy usage 459, 460
  Establishments 582-584
  Foreign investment 632, 634, 635
  Industrial parks and areas 586
  Injuries, illnesses, and lost workdays 332
  Inventories 585
  Labor turnover rates 324
  Pineapple companies and canneries 588
  Processed pineapple production 589, 592
  Raw sugar and molasses production 590, 592
  Sugar companies and mills 588
  Tax base 253, 583, 587
  Value added and value of shipments 582-586
  Wages and salaries 322, 325, 326, 583, 585, 590, 591

Maps
  Census tracts 24-26
  State, counties, and districts 6

Marathon 240

Marijuana 82, 83, 129, 509

Marital status 49, 51, 52

Marriages 65, 93-95

Measures and weights, table 9, 10

Medical. *See* Health

Medicare 280, 281

Subject	Page Numbers
Migration	11, 45, 46, 55-64, 329, 565, 566
Military. See Armed forces	
Minimum wage	328
Mining	314, 417, 418, 528, 538-541
Mortality. See Deaths and Health	
Mortgages	542, 558, 572-574
Motion picture production	620
Motor vehicles. See Transportation, Ground	
Mountains, altitudes, and elevations	153-155, 159, 160
Multiple Listing Service	542, 567-569
Museums	222-224
Names, most common	73
Nationality. See Population	
Neighborhood Boards	379, 392
Newspapers	425, 435, 437
Noise levels	170, 171
Nurses	86, 88
Nursing homes	85
Office buildings, tallest	577-579
Office space occupancy and rent	569, 570
Parks	183, 195, 196, 198, 226, 227, 229-233
Partnerships	420
Passengers. See Transportation	
Passports issued	220
Patents issued	463
Performing arts	220, 221, 224

Subject ... Page Numbers

Periodicals ... 436

Personal consumption expenditures ... 340-342

Personal income ... 337, 340, 344-346

Pets ... 243

Pharmacists ... 88, 89

Physicians and surgeons ... 86, 88

Pilots, flight instructors, and nonpilot airmen ... 488

Pineapple
  Acreage ... 514, 515
  Companies and canneries ... 588
  Crop sales ... 512-515
  Crop volume ... 514, 515
  Employment, jobcounts, and payrolls ... 311-313, 322, 590
  Farms ... 514, 515
  Fresh and processed value ... 338
  Processed pineapple value ... 592
  Processed pineapple volume ... 582, 589
  Tax base ... 253, 582, 587
  Wages and salaries ... 322, 590

Police ... 121, 122, 130

Political parties ... 378, 386-396

Pollution, water, air, and noise ... 144, 165-171

Population (See also Armed forces and Health)
  Age ... 35-38, 46, 49, 51, 52
  Aliens ... 46, 48, 57-62
  Ancestry ... 42
  Armed forces (See also Armed forces) ... 11, 14, 37, 39, 45, 55, 56
  Birth place ... 42, 44
  Census tract ... 27-33
  Cities, towns, and villages ... 20-23
  Citizenship ... 43, 46, 58
  Components of change ... 55
  De facto ... 11, 15, 18
  Density ... 18, 27-33
  Dependents, military ... 11, 14, 37, 39, 44, 45, 55, 56, 62, 64
  Ethnicity ... 11, 39-41, 50
  Families. See Family
  Geographical location ... 16-23, 27-34, 41, 49
  Heights and weights ... 96-99
  Households. See Households

Subject — Page Numbers

- Population - continued
  - In-migration ... 45, 46, 59, 60, 62, 565, 566
  - Language ... 47
  - Length of residence ... 45
  - Migration ... 11, 45, 46, 55-64, 329, 565, 566
  - Mobility. See Population, Residence five years/one year earlier; Migration
  - Nationality ... 48
  - Nativity ... 43, 44, 46
  - Out-migration ... 63, 64
  - Race ... 39, 41
  - Religion ... 53, 54
  - Residence five years earlier ... 59, 60
  - Residence one year earlier ... 46, 62, 565, 566
  - Resident ... 11-17, 19-23, 27-33, 34, 36, 49, 55, 56, 59, 200, 220
  - Residents absent ... 15
  - Rural and urban ... 13, 34
  - Sex ... 35-38, 51, 52
  - Visitors present ... 15, 201
  - Voting age ... 50, 380, 382, 385

- Postal service ... 425-427, 437

- Poverty level incomes ... 351-354

- Prescriptions ... 89

- Prisons ... 130, 131, 140

- Proprietorships ... 421

- Public assistance
  - Disability insurance ... 247, 276, 279
  - Food stamps ... 272, 277
  - Fund source ... 272, 273
  - Medicare ... 280, 281
  - Social Security ... 247, 278, 279
  - Social Security, centenarian ... 38
  - Unemployment insurance ... 247, 272, 282
  - Welfare costs, total ... 272, 273
  - Welfare payments and recipients ... 274-277
  - Workers' compensation ... 247

- Publishing ... 425, 435-437

- Quality of life index rankings ... 272, 287, 288

- Race. See Ethnicity

- Radio ... 425, 432, 433

Subject .... Page Numbers

Rainfall 172-178

Real estate licensees 572

Real property. See Housing and Land and land use

Recreation
  Cultural attractions 198, 220-224
  Facilities and land 187, 198, 226, 227, 229-233, 238-240
  Parks 219, 226-233
  Participation 228, 230, 231, 234-236, 240-242
  Personal consumption expenditures 341, 342, 356
  Sports 198, 233-243

Registered nurses 88

Religion 53, 54, 95, 106

Rental housing. See Housing

Research and development expenditures 461, 462

Reservoirs 158, 162

Residency, years of 45, 46, 558, 565, 566

Residents. See Population

Retailing
  Department stores 601, 605
  Eating and drinking places 602
  Employment, jobcounts, and payrolls 311-315, 322, 417, 418, 596, 605
  Establishments 594, 596-605
  Floor space 600, 603-605
  Foreign investment 634, 635
  Injuries, illnesses, and lost workdays 332
  Major retailers 605
  Merchandise line sales 599
  Military facilities 606, 607
  Sales 593-603, 605, 607
  Shopping centers 604, 605
  Tax base 253, 595
  Wages and salaries 322, 325, 326
  Women-owned businesses 423

Retirement 283, 372, 375, 376

Rivers 156

Rural population 13, 34, 38

Subject — Page Numbers

Savings and loan associations 400, 401, 403, 573

Schools. *See* Education

Seating capacities 580, 581

Service industries (*See also* Hotels)
  Employment, jobcounts, and payroll 311-315, 322, 417, 418, 596, 610, 611
  Establishments 594, 596, 597, 609-611
  Receipts 593-597, 609, 611
  Tax base 595
  Wages and salaries 322, 325-327
  Women-owned businesses 423

Ships and shipping. *See* Transportation, Water

Shopping centers 604, 605

Shoreline 149, 239

Social security. *See* Public assistance

Social service organizations 274, 275, 284-286

Solar water heating 460

Sports 198, 233-243

Stockholdings of Hawaii residents 406, 407

Streams 156

Streets and highways. *See* Transportation, Ground

Strikes 311-313, 335, 336, 591

Structures and floor area 186

Sugar
  Acreage 514, 515, 590
  Cane crop sales 512-515
  Cane volume 514, 515, 590
  Companies and mills 588
  Employment, jobcounts, and payrolls 311-313, 322, 591
  Energy generated, purchased, sold and used by mills .. 458
  Farms 514, 515
  Government support payments 592
  Raw sugar and molasses value 338, 582, 592
  Raw sugar and molasses volume 582, 590
  Raw sugar price 591
  Strikes 591
  Tax base 253, 582, 587
  Wages and salaries 322

Subject	Page Numbers
Sunrise and sunset times	181
Sunshine	172, 173, 175, 177, 181
Surf and surfing	179, 228, 239
Symphony orchestra	220
Tabular presentation guide	8
Tallest structures	577-579
Taxes. See Government	
Taxis	472
Teachers. See Education	
Telegraph service	428, 437
Telephone service	425, 428-431, 438
Television	425, 432-434
Television productions	620
Temperature, climatic	171-174, 176-181
Theater	221, 253, 580, 581
Tidal waves	162
Tobacco sales	622
Tourism (See also Hotels and Transportation)	
Characteristics of visitors	202-204, 206-209
Conventions	210
Expenditures and economic impact	198, 210-216, 338
Hawaii residents' travel	217-219
Hawaii Visitors Bureau	216
Passenger arrivals	199, 200
Visitor arrivals	198, 201-203, 205, 206-208
Visitor destination	205-208
Visitors present	15, 201, 203
Trade (See also Retailing and Wholesaling)	
Balance of payments	635
Foreign	457, 507, 508, 624, 626-632
Interstate	624, 625

Subject | Page Numbers

- Traffic. *See* Transportation
- Transportation
  - Air
    - Accidents 76
    - Aircraft operations 486, 487, 495-497
    - Airline characteristics 488-491, 494-497
    - Airports and heliports 195, 464, 485, 486, 493
    - Cargo and mail 491-493
    - Distances between cities 494
    - Fares and flight times 495-497
    - Fuel consumption 451
    - Passengers 199, 489-491, 493, 494
    - Pilots, flight instructors, and nonpilot airmen 488
    - Visitor expenditures 211
  - Budgets
    - Family 373, 374
    - Retired couple 375, 376
  - Consumer price index 364, 366, 368
  - Employment 314
  - Ground
    - Accidents 76, 479
    - Bicycles 472
    - Bridges 465
    - Buses and bus service 468, 469, 471, 480-482
    - Commuting characteristics 483
    - Drivers licenses 474
    - Expenditures on vehicles 355
    - Fuel consumption 451, 476, 477
    - Miles traveled 476, 477
    - Parking spaces, metered 467
    - Passenger vehicles 468-475
    - Railroads 484
    - Speeds on highways 478
    - Street and highway mileage 465
    - Taxis 472
    - Traffic signals 467
    - Trucks 468, 469, 471, 474
    - Tunnels 466
    - Vehicle registration 464, 468-475
    - Visitor expenditures 211
  - Personal consumption expenditures 341, 342
  - Water
    - Accidents 76, 501
    - Boat and ship registration 464, 499, 500
    - Cargo 464, 502, 503, 505-508
    - Fuel consumption 451
    - Harbors 195, 498, 501-503, 505, 507, 508

Subject — Page Numbers

- Transportation
  - Water - Continued
    - Passengers ... 199, 502-505
    - Racing, Transpacific Yacht Club ... 241
    - Ship arrivals ... 501-503
- Travel, Hawaii residents
  - Characteristics of out-of-state travel ... 217, 218
  - Passports issued ... 220
  - Personal consumption expenditures ... 341, 342
  - Returning from mainland ... 219
- Trees. See Forest
- Trees, streets and parks ... 183
- Trucks ... 468, 469, 471, 474
- Trust companies ... 401, 404, 573
- Tsunamis (seismic sea waves) ... 162
- Tunnels, highway ... 466
- Unemployment. See Employment and labor force
- Unions ... 333, 334
- United Way revenues and outlays ... 285
- University of Hawaii ... 109, 110, 112, 120, 221, 227, 243
- University Press of Hawaii ... 436
- Unrelated individuals ... 51, 349-352
- Urban population ... 13, 34
- Utilities
  - Electricity ... 439-441, 443-445, 448-450, 458, 459
  - Gas ... 439, 446, 447, 449, 450
  - Rates ... 444-448, 450
  - Telegraph ... 428, 437
  - Telephone ... 425, 428-431, 438, 450
  - Water ... 166, 450
- Vacancy
  - Housing ... 449, 559, 560, 562-564
  - Office space ... 569, 570

Subject Page Numbers

Vehicles. See Transportation

Veterans and retired military ... 298, 300

Visitors. See Tourism

Vital statistics. See Health

Volcanic eruptions ... 160

Voters and voting ... 378, 380-386, 388-394

Voting precincts ... 388

Wages and salaries. See Employment and labor force

Water (See also Geography)
  Area, inland water ... 150-152
  Quality, beaches ... 165, 166
  Recreation ... 227, 228, 233-237, 239
  Reserve ... 528, 529
  Temperature, beach ... 171, 179
  Use and consumption ... 163, 164, 166
  Utility ... 166, 450

Waterfalls ... 157

Wealthholders ... 337, 358, 359

Weather ... 144, 171-181

Weights and measures, table ... 9, 10

Welfare. See Public assistance

Wholesaling
  Employment, jobcounts, and payrolls ... 311-315, 322, 417, 418, 596
  Establishments ... 594, 596, 597, 599
  Injuries, illneses, and lost workdays ... 332
  Sales ... 593-597, 608
  Tax base ... 595
  Wages and salaries ... 322, 325, 326
  Women-owned businesses ... 423

Wind ... 175-177, 179, 180

Work stoppages ... 311-313, 335, 336, 591

Yacht racing ... 241

Zoos ... 225